LCD-Monitor

Chassis : LS20CFV

Model : 2033HD

SERVICE Manual

TFT-LCD Monitor

2033HD

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2. Product specifications
3. Disassembly and Reassemble
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Refer to the service manual in the GSPN (see the rear cover) for the more information.

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GSPN (Global Service Partner Network)

Area	Web Site
North America	http://service.samsungportal.com
Latin America	http://latin.samsungportal.com
CIS	http://cis.samsungportal.com
Europe	http://europe.samsungportal.com
China	http://china.samsungportal.com
Asia	http://asia.samsungportal.com
Mideast & Africa	http://mea.samsungportal.com

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1. Precautions

1-1. Safety Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1-1. Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC power jack before servicing.

1-1-2. Servicing the LCD Monitor

1. When servicing the LCD Monitor, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3. Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistorcapacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):
   WARNING : Do not use an isolation transformer during this test.
   Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

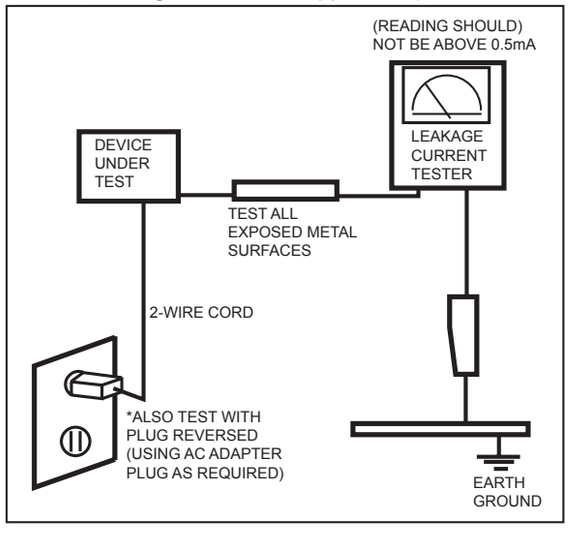


Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts.
   The current measured should not exceed 0.5 milliamp.
   Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4. Product Safety Notices

Some electrical and mechanical parts have special safetyrelated characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2. Servicing Precautions

WARNING: An electrolytic capacitor installed with the wrong polarity might explode.
Caution: Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.
Note: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
   (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to theblades of the AC plug.
   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3. Static Electricity Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4. Installation Precautions

1. For safety reasons, more than two people are required for carrying the product.
2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.
3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.
4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.
5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.
6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the highvoltage cable or the antenna falling over may cause fire or electric shock.
7. When installing the product, leave enough space (10cm) between the product and the wall for ventilation purposes. A rise in temperature within the product may cause fire.

Memo

2. Product specifications

2-1. Feature & Specifications

Feature
▶ Supreme Digital Interface & Networking - With a built-in HD digital tuner, it supports HD broadcasting with no particular set-top box and provides simple access with a single remote control. ▶ Excellent Picture Quality ▶ Dynamic Contrast - Automatically detects the input visual signal and adjusts to create optimum contrast. ▶ DTV Tuner, HDMI, Stereo ▶ Convenience -The TV utilizes the HDMI system to implement perfect digital sound and picture quality.

Specifications		
Item	**Description**	
Model	**2033HD**	
LCD Panel	TFT-LCD Panel, RGB Vertical stripe, normally White, 20-Inch viewable, 0.2768 (H) x 0.2768 (V) mm Pixel Pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 81 kHz (Automatic) Vertical: 56 Hz ~ 75 Hz(Automatic)	
Display Colors	16.7 Million colors	
Maximum resolution	Horizontal : 1600 pixels Vertical : 900 pixels	
Input Signal	Analog 0.7 Vp-p ±5% positive at 75Ω, internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	136.750 MHz	
Active Display (Horizontal/Vertical)	442.8 (H) X 249.2 (V)	
AC power voltage & Frequency	AC 110 ~ 240V, 50 ~ 60 Hz	
Power Consumption	51 W ＜ 2W	
Dimensions Set (W x D x H)	487.8 X 323.8 X 70.5mm (Without Stand) 487.8 X 373.7 X 177.0mm (With Stand)	
Weight Set (After installation Stand)	Product : 5.0Kg / packing : 6.1Kg	
TV System	Tuning	Frequency Synthesize
	System	PAL, NT443, SECAM
	Sound	MONO, STEREO, NICAM

Specifications	
Item	**Description**
Model	**2033HD**
Environmental Considerations	Operating Temperature: 50˚C ~ 104˚F(10˚C ~ 40˚C) Operating Humidity : 10% ~ 80% Storage Temperature: -4˚C ~ 113˚C(-20˚C ~ 45˚C) Storage Humidity: 5% ~ 95%
Antenna Input	75Ω
Sound Characteristic	-MAX Internal speaker Out : Right : 3W / Left : 3W -BASS Control Range : -8 dB ~ + 8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz A/V : 80 Hz ~ 20 kHz

2-2. Spec Comparison to the Old Models

Model	2033HD	933HD
Design		
Screen Size	20.1”	19”
Resolution	1600 X 900 60Hz	1360 x 768 60Hz
Brightness	300cd/m2	300cd/m2
Contrast Ratio	1000:1	1000:1
Response Time	5ms	5ms
Viewing Angle	Left/Right/Up/Down : 85˚/85˚/80˚/80˚	Left/Right/Up/Down : 80˚/80˚/80˚/80˚
PC Input	D-SUB, DVI	D-SUB, DVI
Power Consumption	51W	58W
DPMS	Less than 2W	Less than 2W
Sound Output	3W x 2	3W x 2
DTV Resolution	SD,HD(H.264 Support(France))	SD
UI	Single UI	Smart UI

Image Size : If the resolution is not wide resolution, this option allows the screen size to be selected as normal or wide.

2-3. Accessories

Product	Description	Ccde. No	Remark
	Remote Control & Batteries (AAA x 2)	BN59-00865A	Samsung Electronics Service center
	Power Cord	3903-000085	
	Stand Body	BN96-07605D	
	Stand Base	BN96-07604A	
	D-Sub Cable	BN39-00244G	
	User’s Guide, Monitor Driver, Natural Color Pro Software	BN59-00905A	
	Cleaning Cloth	BN63-1798B	

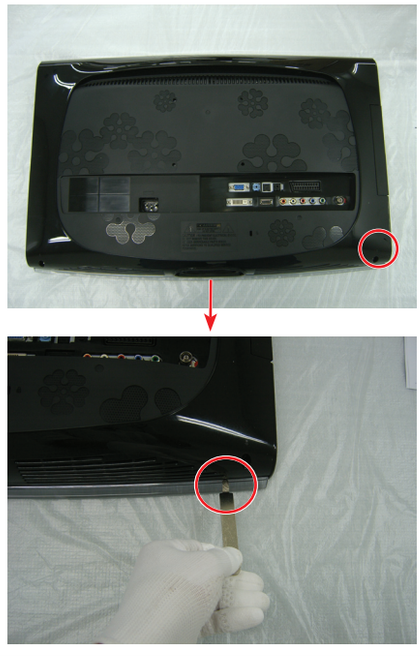
3. Disassembly and Assembly

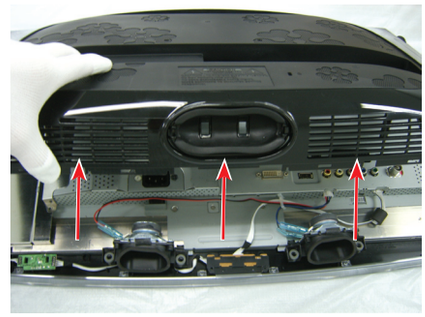
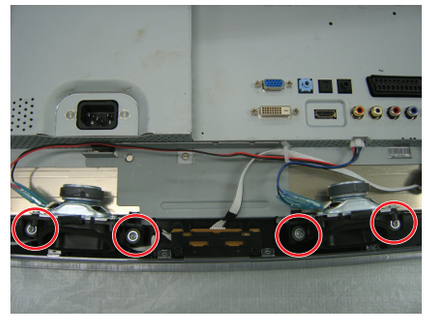
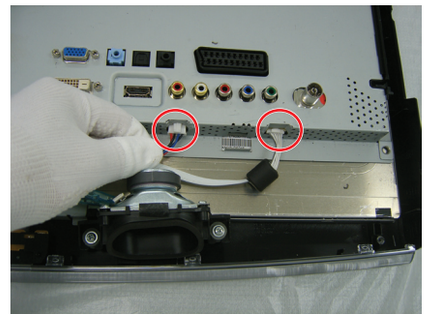
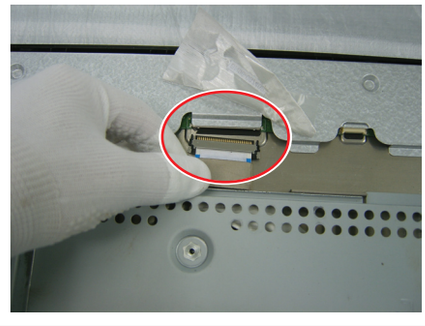
This section describes the disassembly and reassembly sequences for this monitor.

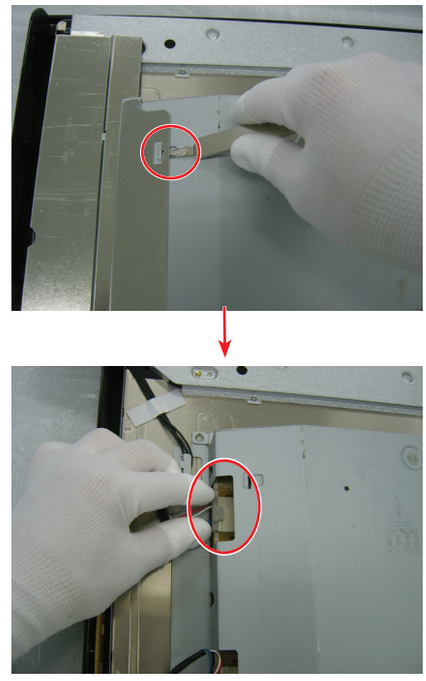
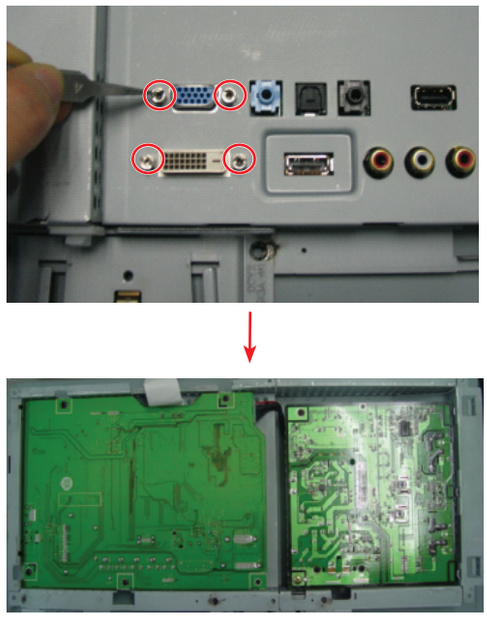
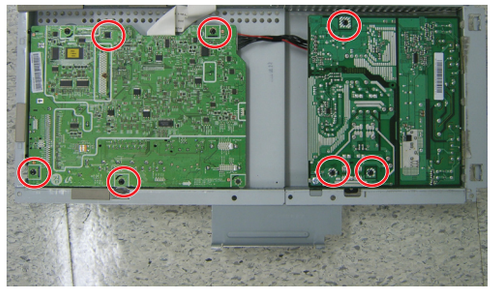
⚠ Warning: As this monitor has parts that are sensitive to static electricity, be careful when handling them.

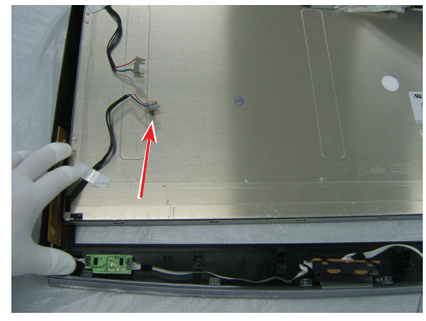
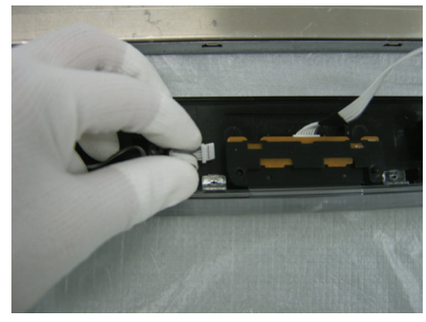
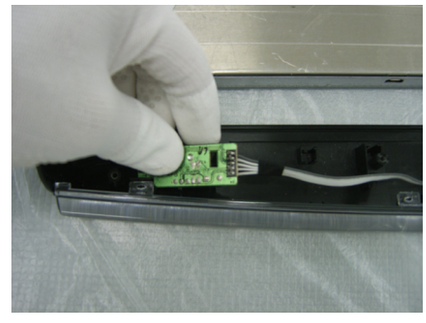
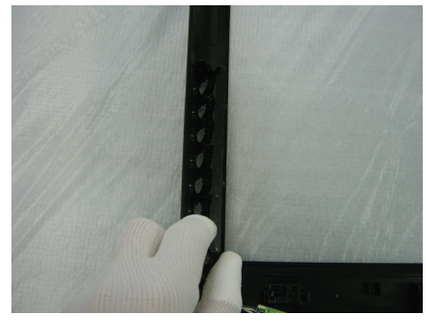
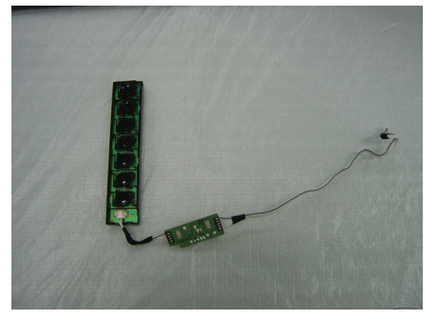
3-1. Disassembly

⚠ Caution: 1. Turn the monitor off before beginning the disassembly process.
2. When disassembling the monitor, do not use any metal tools except for the provided jig.
3. Remove the signal cable and the power cord before beginning the disassembly.

Description	Photo	Screws
1. Place monitor face down on cushioned table. Remove Stand, then remove 4 marked screws from the rear cover. ⚠ Caution : If you do not tilt the stand and use too much force to remove it, the connection pin may break.	 	
2. Remove the cover and the LCD panel using the provided jig on both grooves at the bottom. ⚠ Caution : Remove the cover and the LCD panel using the provided jig on both grooves at the bottom. If you disassemble the product with only one side opened, it may be damaged.		

Description	Photo	Screws
3. Insert a flat screwdriver into the groove and then lift up and remove the cover.		
4. After remove COVER-REAR, then disconnect SPEAKER , FUNCTION wire. 5. Disconnect LVDS cable from panel.	  	

Description	Photo	Screws
6. After disconnecting SHIELD-LAMP of left side, disassemble lamp wire between panel and IP Board.		
7. Remove 4 screws of PC and DVI connector. Then, upset the shield.		
8. Remove 7 marked SCREW of left picture. Disconnect IP board. ※ Reassembly procedures are in the reverse order of disassembly procedures.		

Description	Photo	Screws
9. Remove the LCD panel.		
10. Remove the WIRE-CONNECTOR from the LED PCB MODULE.		
11. Remove the IR-PCB from the HOOK.		
12. Remove the KNOB-CONTROL from the COVER-FRONT.		
13. Remove the FUNCTION PCB MODULE.		

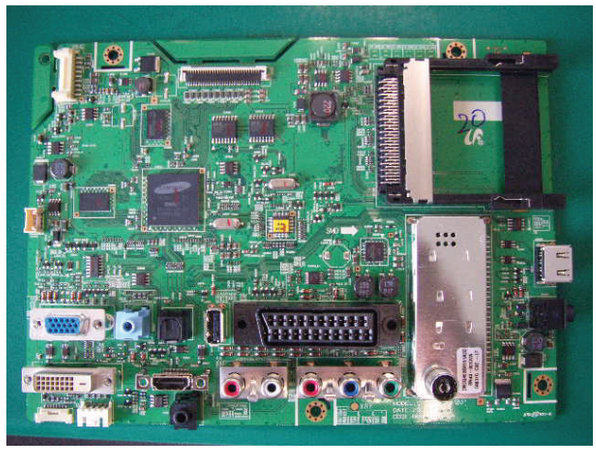
※ The assembly is in the reverse order of disassembly.

4. Troubleshooting

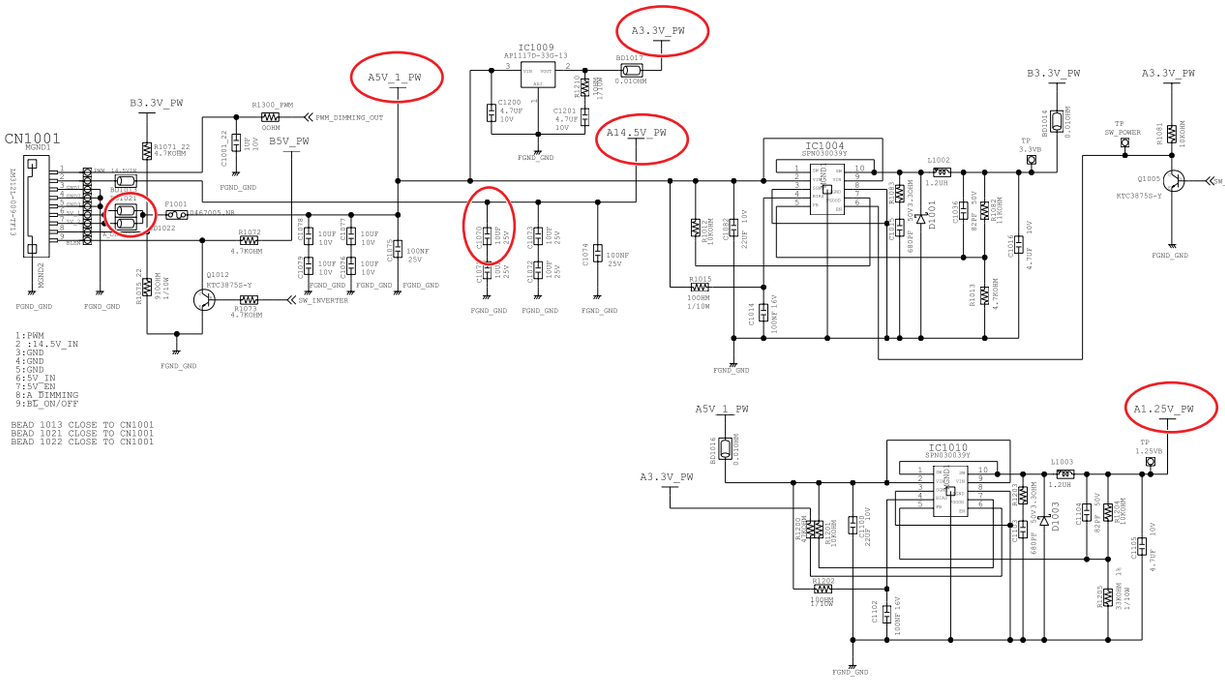
4-1. First Checklist for Troubleshooting

1. Check the various cable connections first.
   - Check to see if there is a burnt or damaged cable.
   - Check to see if there is a disconnected cable connection or a connection is too loose.
   - Check to see if the cables are connected according to the connection diagram.
2. Check the power input to the Main Board.
3. Check the following circuits.
   • No raster appears: Function PBA, Main PBA, I/P PBA
   • 55V develop but no screen: Main PBA
   • 5V does not develop: I/P PBA
4. Check the voltage in and out between the IP↔ Main Board, between the IP↔ Panel, and between the Main LVDS Boards.

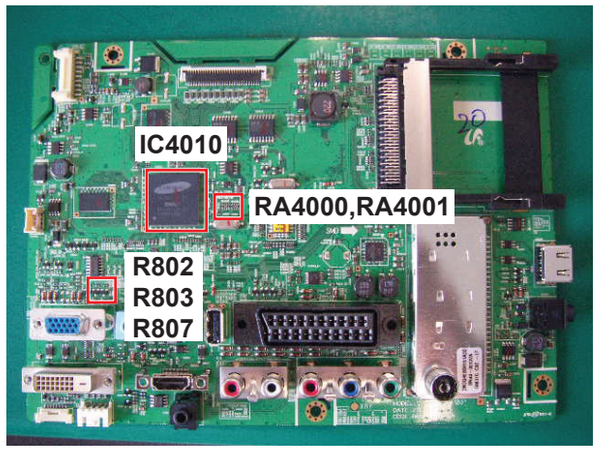
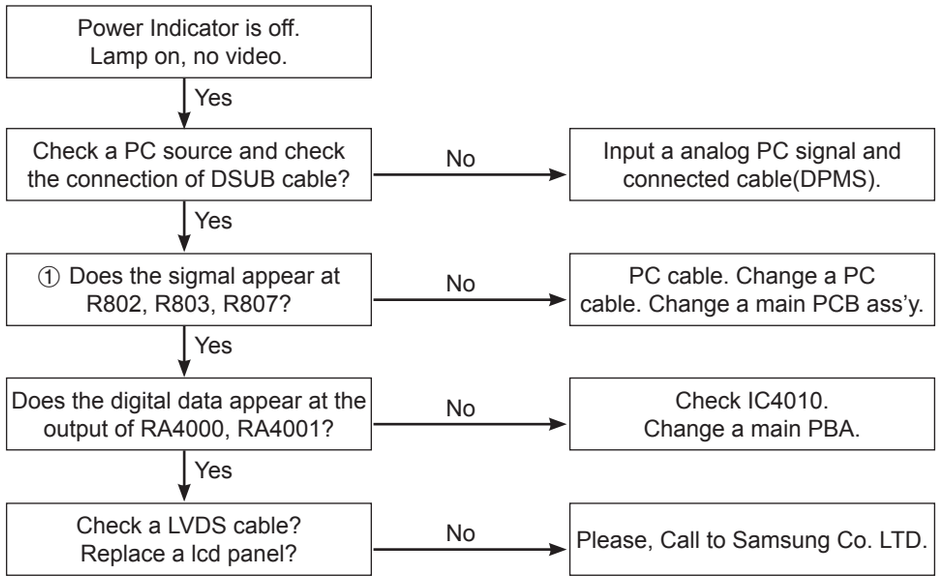
4-2. No Power

Symptom	– Though the power swtich on, the LED power off and the screen is blank.
Major checkpoints	– Check Power cable. – Check whether the Lamp connector is connected correctly to the IP. – Check whether the power cable is connected correctly to the MAIN. – Check whether the Function cable is connected correctly to the MAIN.
Diagnostics	 Main Board Front LAMP off, power indicator LED red color? → No → Check a connection a power cable. ↓ Yes Does proper 5V appear at BD1021. → No → Change a Assy PCB Power. ↓ Yes Does proper DC14.5V appear at C1070? → No → Change a Assy PCB Power. ↓ Yes Does proper DC3.3V, 1.2v appear at BD1014, C1105? → No → Check IC1004, IC1010. Change a main PBA. ↓ Yes A power is supplied to set? → No → Check a other function.(No picture part) Replace a lcd panel.
Caution	Make sure to disconnect the power before working on the IP board.

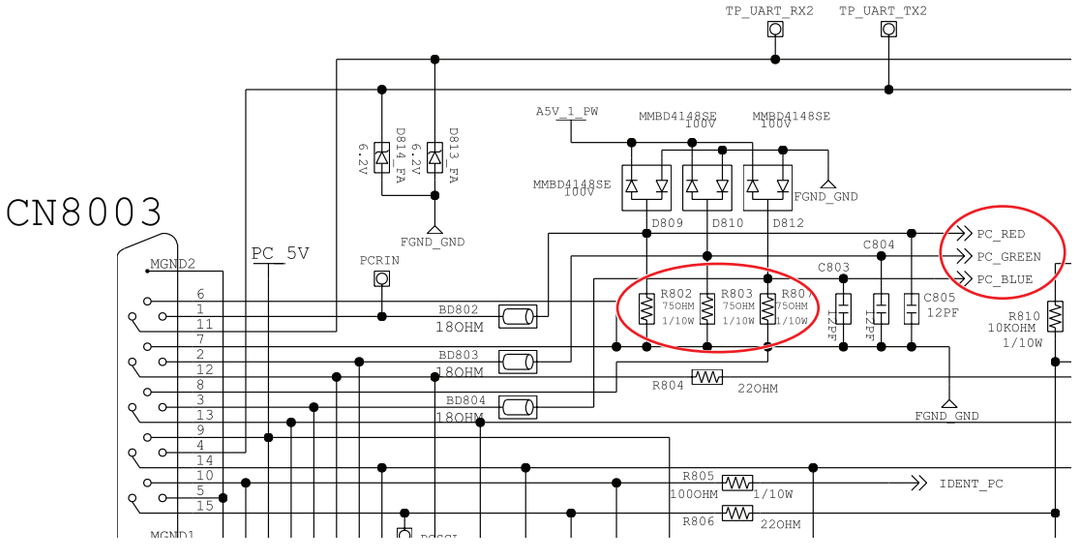
4-2-1. Circuit diagrams when the power does not turn on



4-3. No Video (Analog PC)

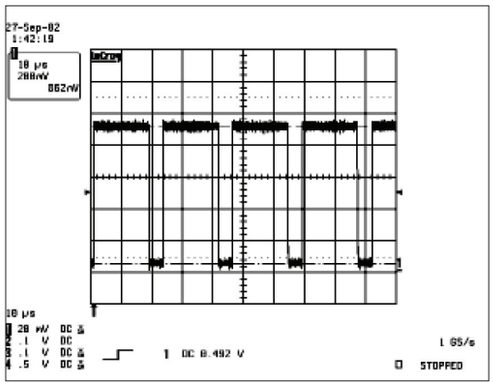
Symptom	– Though the LED power turns on, the screen is blank when connecting the VGA cable.
Major checkpoints	– Even though the LED power turns on, the screen is blank when connecting the VGA cable. – Check the D-sub cable connections. – Check whether the LVDS cable is connected correctly to the panel. – Check whether the lamp connector of the panel is connected correctly to the IP board.
Diagnostics	 Main Board Front 
Caution	Make sure to disconnect the power before working on the IP board.

4-3-1. Circuit diagrams and waveforms (Analog) when no screen is displayed on the monitor

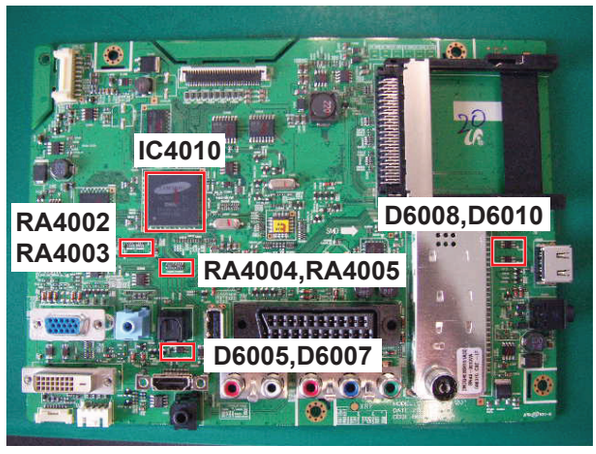


4-3-2. Waveforms when no screen is displayed (Analog PC)

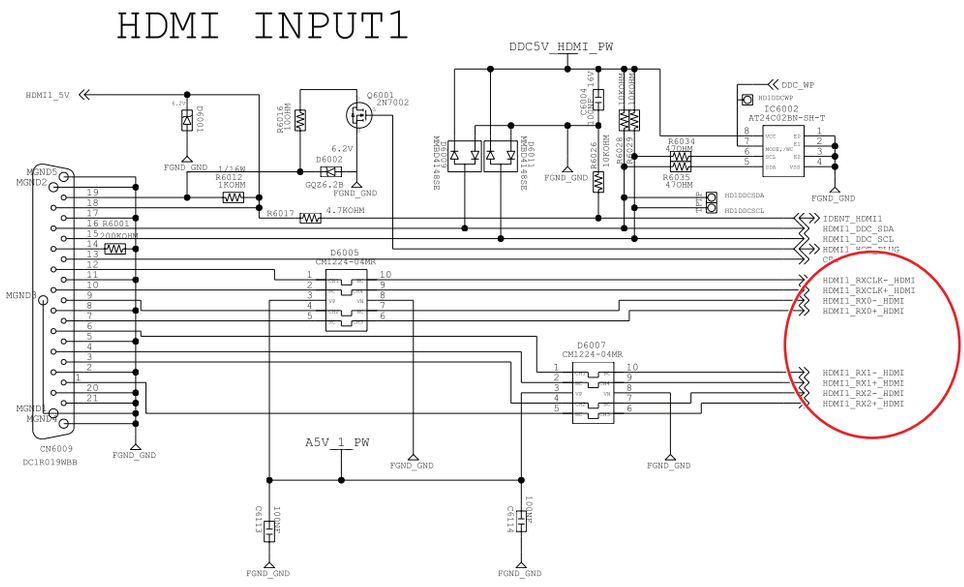
① R,G,B Output Signal of IC4010

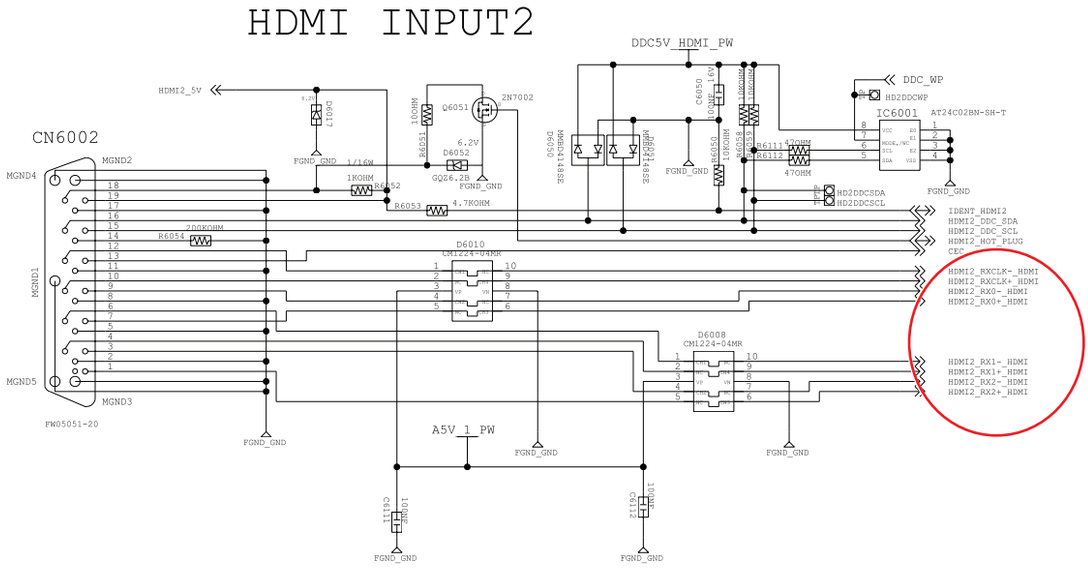


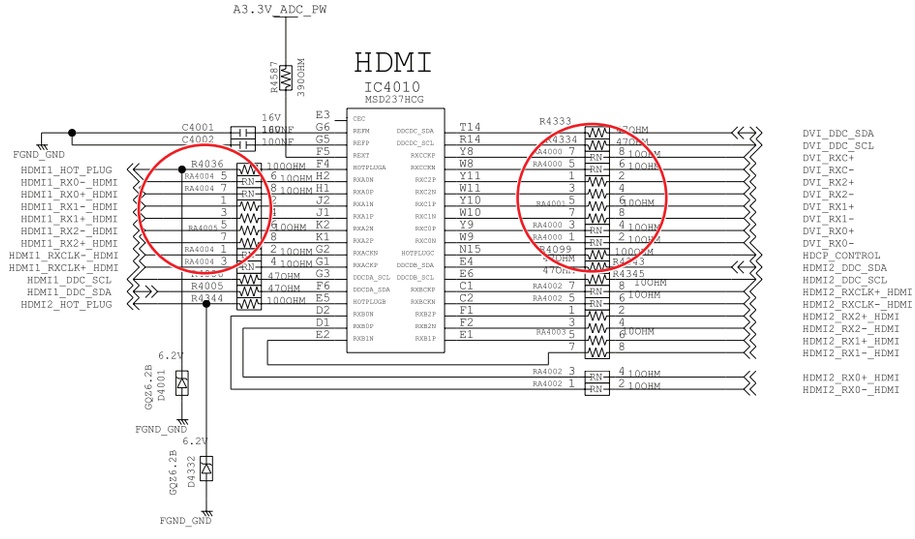
4-4. No Video (Digital-HDMI)

Symptom	– The LED power turns on but the screen is blank when the DVI cable or HDMI cable is connected.
Major checkpoints	– Even though the LED power turns on, the screen is blank when connecting the DVI cable or HDMI cable. – Check the DVI cable or HDMI cable connections. – Check whether the LVDS cable is connected correctly to the panel. – Check whether the lamp connector of the panel is connected correctly to the IP board.
Diagnostics	 Main Board Front Power Indicator is off. Lamp on, no video. Yes Check the connection of HDMI cable? — No → Input a HDMI cable. Yes ③ Does the digital data appear at D6005, D6007 (HDMI1) or D6008, D6010(HDMI2)? — No → Check HDMI cable. Change the cable. Yes Does the digital data appear at INPUT of IC4010 at RA4004, RA4005 (HDMI1) or RA4002, RA4003(HDMI2)? — No → Check the IC4010. Change a main PBA. Yes Check a LVDS cable? Replace lcd panel? — No → Please, Call to Samsung Co. LTD.
Caution	Make sure to disconnect the power before working on the IP board.

4-4-1. Circuit diagrams and waveforms (Digital-HDMI) when no screen is displayed on the monitor

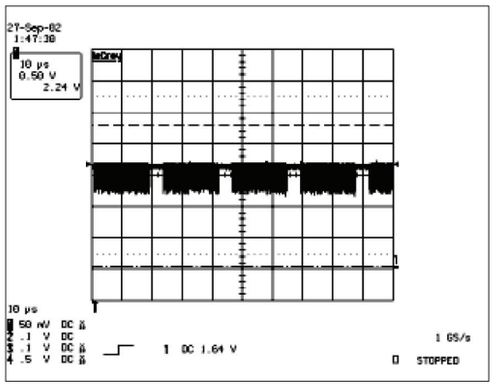




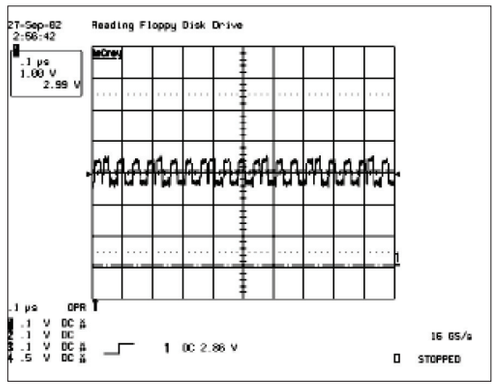


4-4-2. Waveforms when a blank screen is displayed (Digital-HDMI)

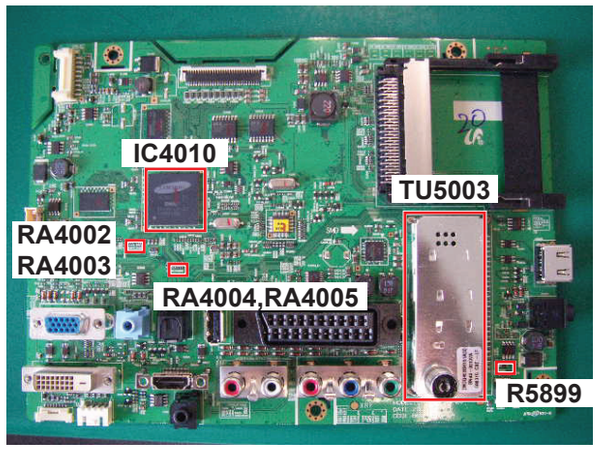
② Digital Output Data of IC4010



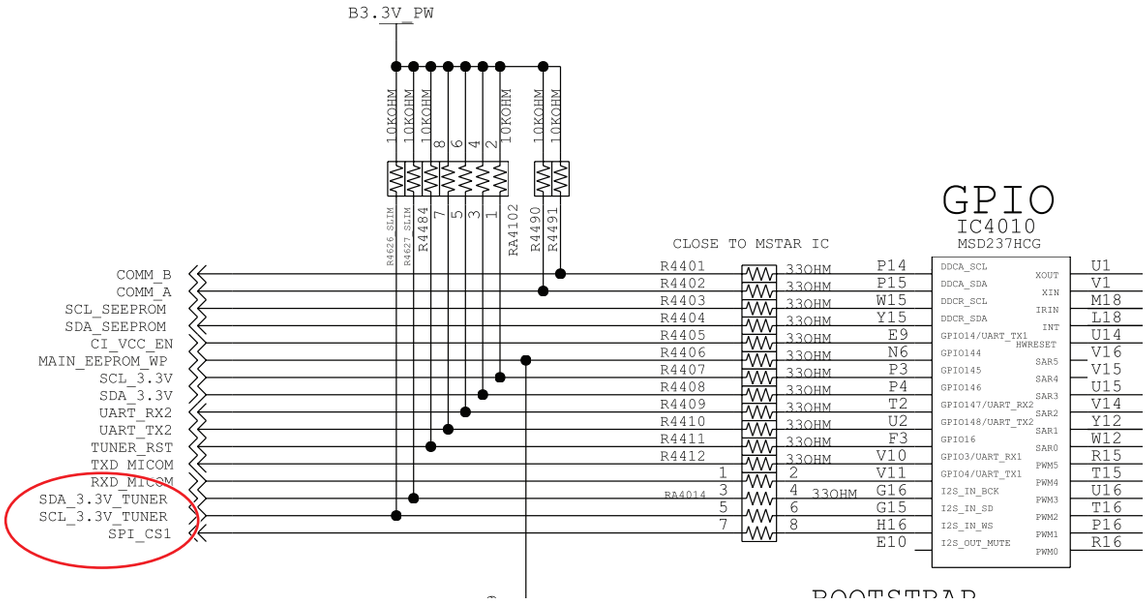
③ Signal of HDMI(Data)

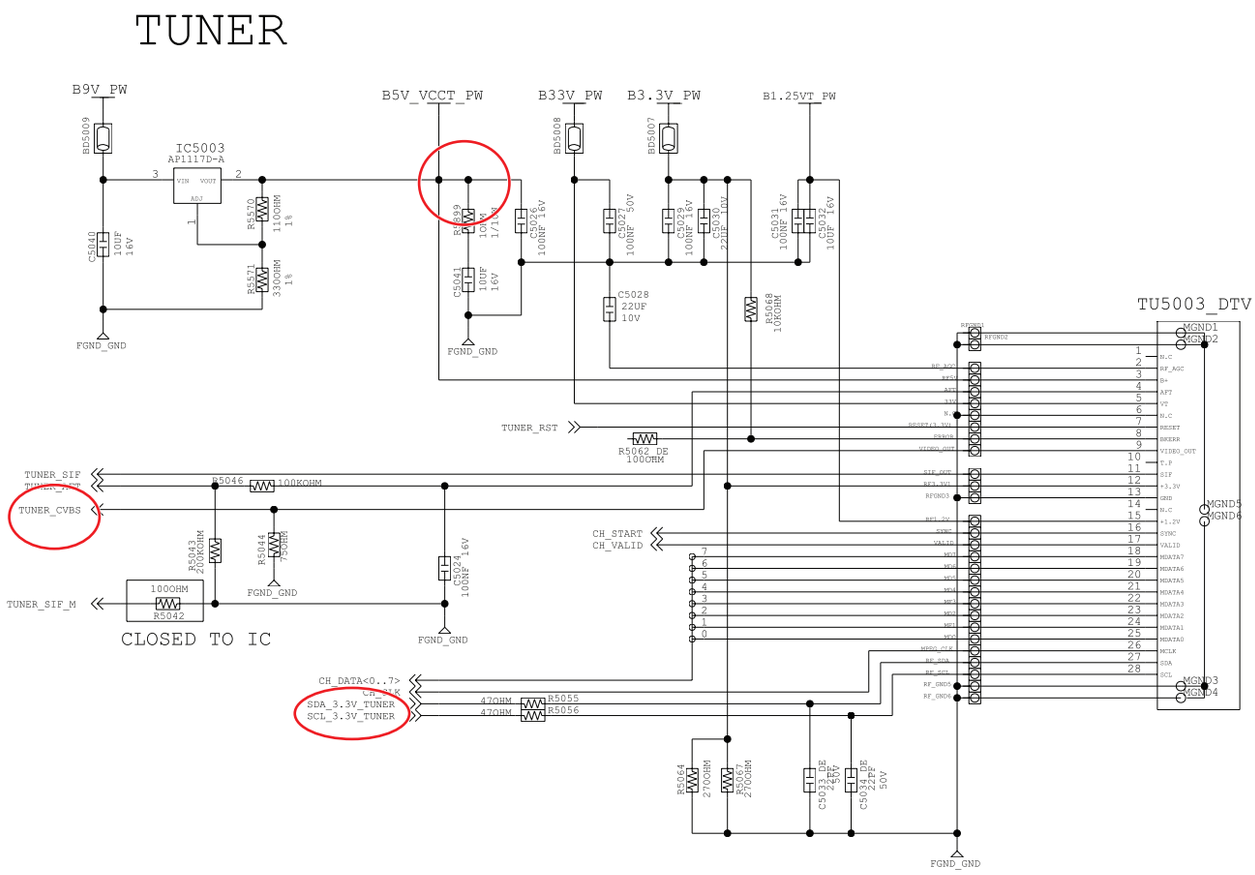


4-5. No Picture (Tuner_CVBS)

Symptom	– The LED power turns on but the screen is blank when the RF cable is connected.
Major checkpoints	– Even though the LED power turns on, the screen is blank when connecting the RF cable. – Check the RF cable connections. – Check whether the LVDS cable is connected correctly to the panel. – Check whether the lamp connector of the panel is connected correctly to the IP board.
Diagnostics	 Main Board Front Power Indicator is off. Lamp on, no picure. → No → Connect the RF cable and check RF signal. ↓ Yes ④ Does the signal appear at R5899? → No → Check the Tuner Vcc 5V. Change a main PBA. ↓ Yes ④ Does the signal appear at #9 of TU5003? → No → Change a main PCB ass'y. ↓ Yes ⑤ Does the digital data appear at R5055,R5056? → No → Check a IC4010. Change a main PCB ass'y. ↓ Yes Check a LVDS cable? Replacea lcd panel? → No → Please, Call to Samsung Co. LTD.
Caution	Make sure to disconnect the power before working on the IP board.

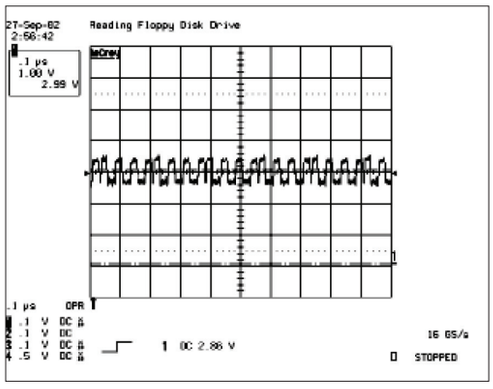
4-5-1. Circuit diagrams and waveforms (Tuner_CVBS) when no screen is displayed on the monitor



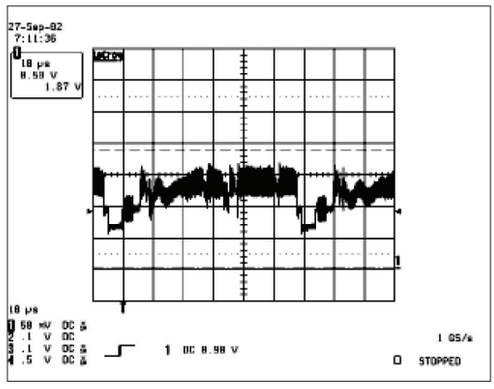


4-5-2. Waveforms when a blank screen is displayed (Tuner_CVBS)

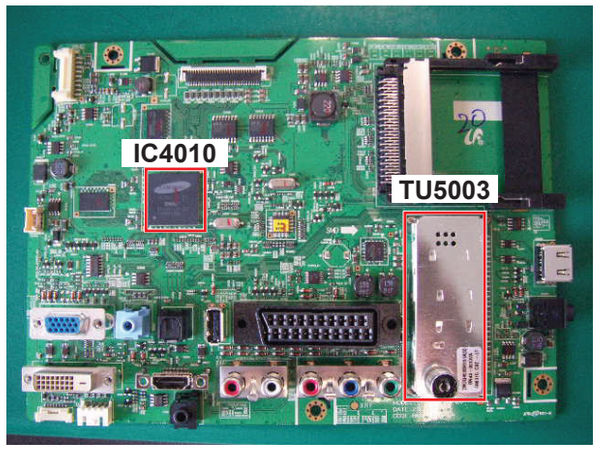
④ Tuner I2C Data signal.



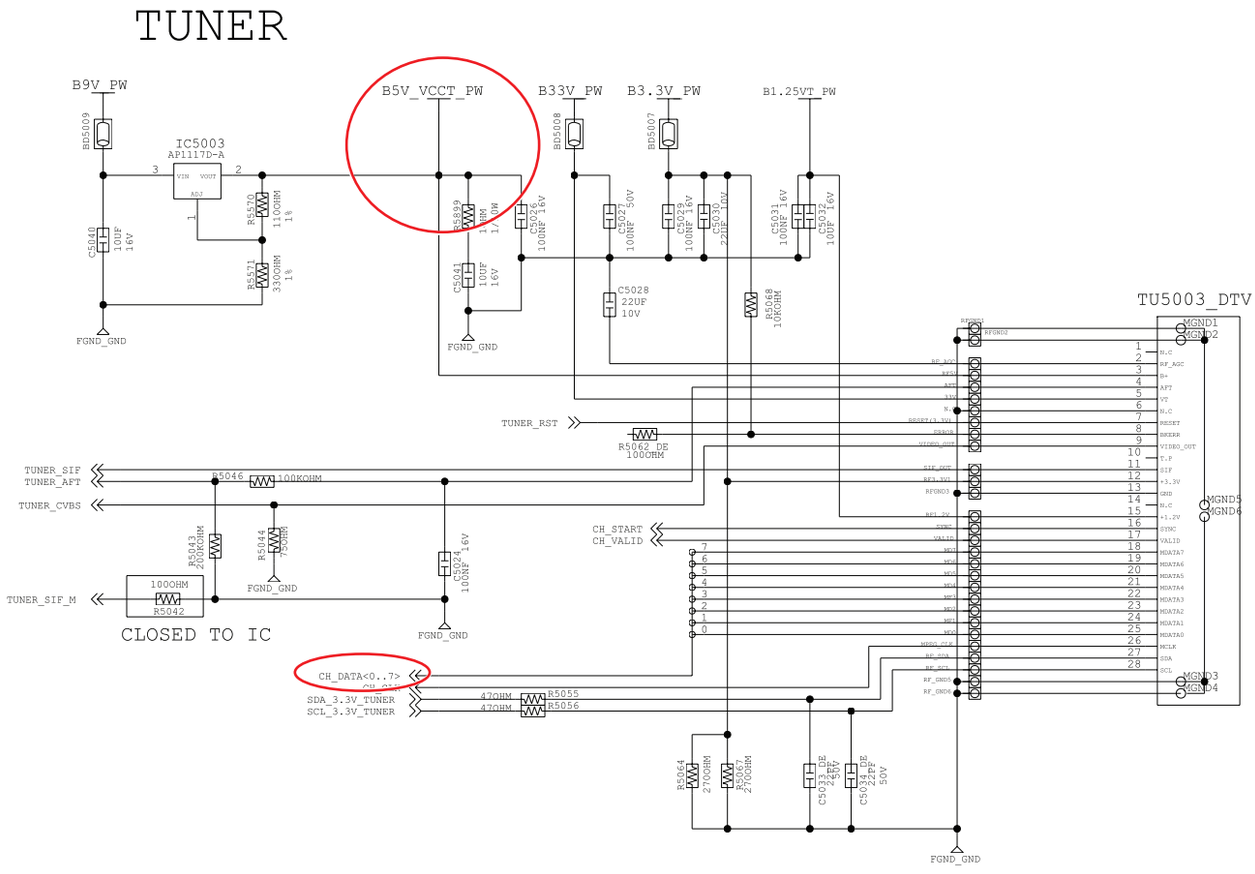
⑤ Tuner_CVBS Output Signal



4-6. No Picture (Tuner_DTV)

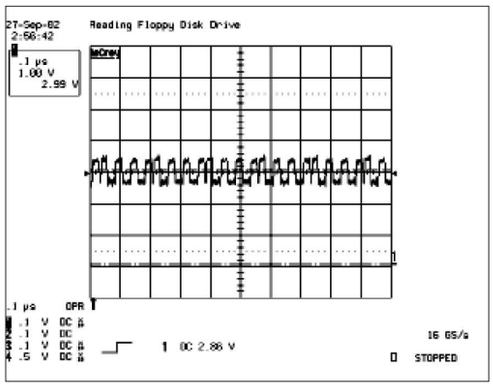
Symptom	– The LED power turns on but the screen is blank when the Antenna Cable is connected.
Major checkpoints	– Even though the LED power turns on, the screen is blank when connecting the Antenna Cable. – Check the Antenna Cable connections. – Check whether the LVDS cable is connected correctly to the panel. – Check whether the lamp connector of the panel is connected correctly to the IP board.
Diagnostics	 Main Board Front Power Indicator is off. Lamp on, No signal image. → No → check antenna cable ↓ Yes ④ Does the signal appear at R5899? → No → Check the Tuner Vcc 5V. Change a main PBA. ↓ Yes ④ Does the signal appear at #16~25of TU5003? → No → check antenna cable Change a main PBA ↓ Yes Check a LVDS cable? Replace lcd panel? → No → Please, Call to Samsung Co. LTD.
Caution	Make sure to disconnect the power before working on the IP board.

4-6-1. Circuit diagrams and waveforms (Tuner_DTV) when no screen is displayed on the monitor

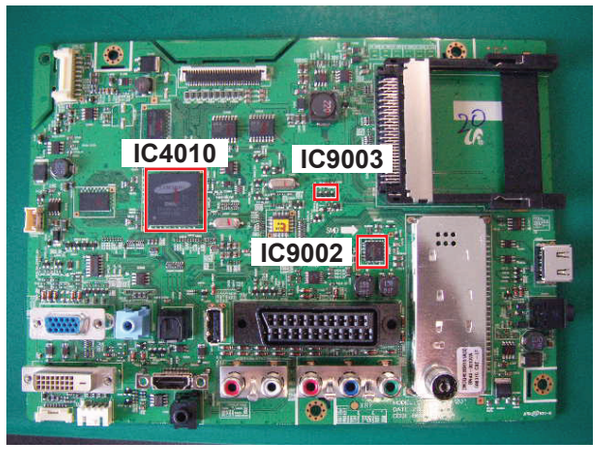


4-6-2. Waveforms when a blank screen is displayed (Tuner_DTV)

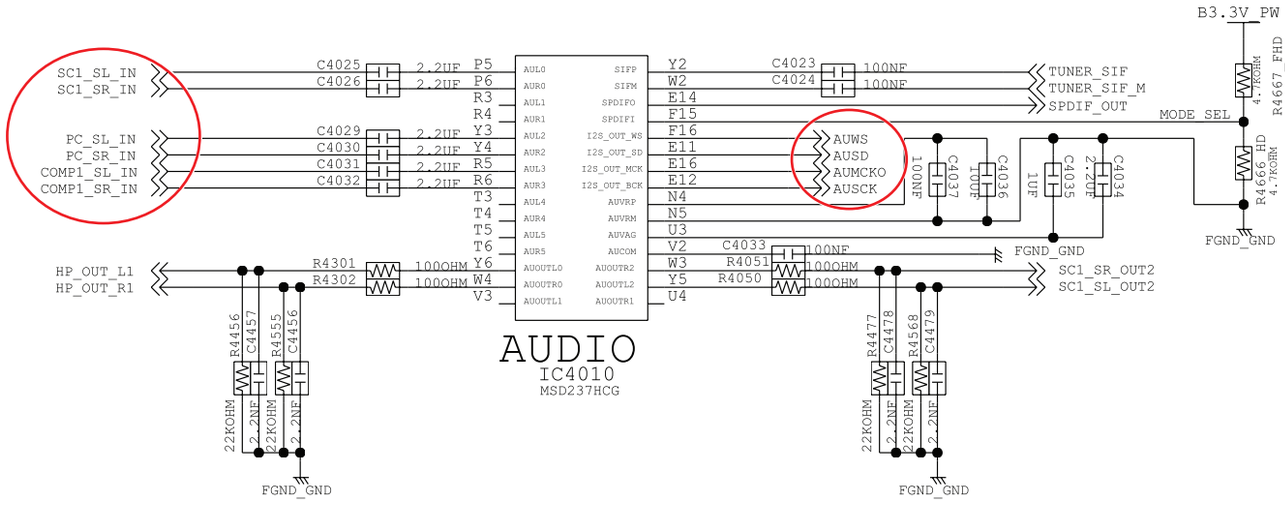
④ Digital Channel DATA signal



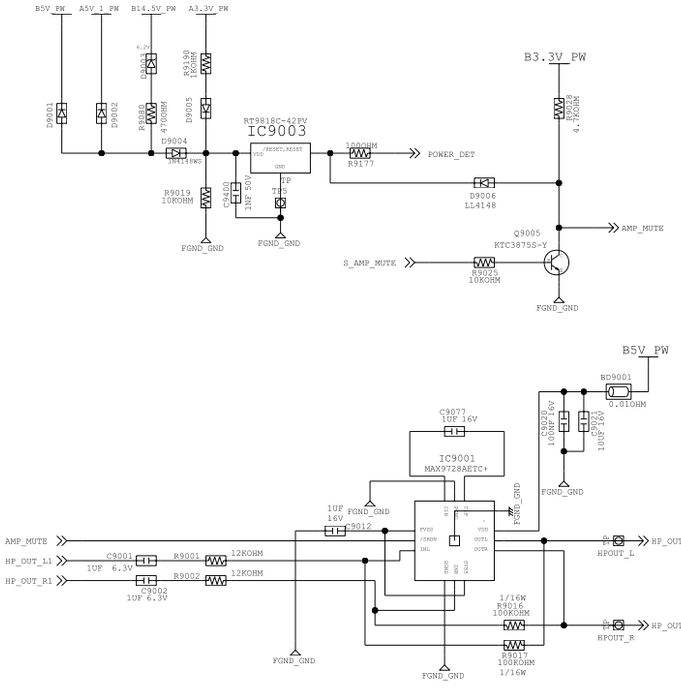
4-7. No Sound

Symptom	– The LED power turns on but the screen is blank when the DVI cable is connected.
Major checkpoints	– Even though the LED power turns on, the screen is blank when connecting the DVI cable. – Check the DVI cable connections. – Check whether the LVDS cable is connected correctly to the panel. – Check whether the lamp connector of the panel is connected correctly to the IP board.
Diagnostics	 Main Board Front Picture is display, no sound. → No → Connect a sound cable. control a volume. ↓ Yes ⑥ Does the signal appear at Pin #P5,P6,R3,R4,Y3,Y4,R5,R6 of IC4010? → No → Check a Sound signal connection. ↓ Yes Check the 3.3V of #1 IC9002. → No → check IC9003. Change a main PBA. ↓ Yes ⑦ check output signal of #22,23,28,29,42,43,48,49 of IC9002 → No → check IC9002. ↓ Yes Replace the speaker ass'y?
Caution	Make sure to disconnect the power before working on the IP board.

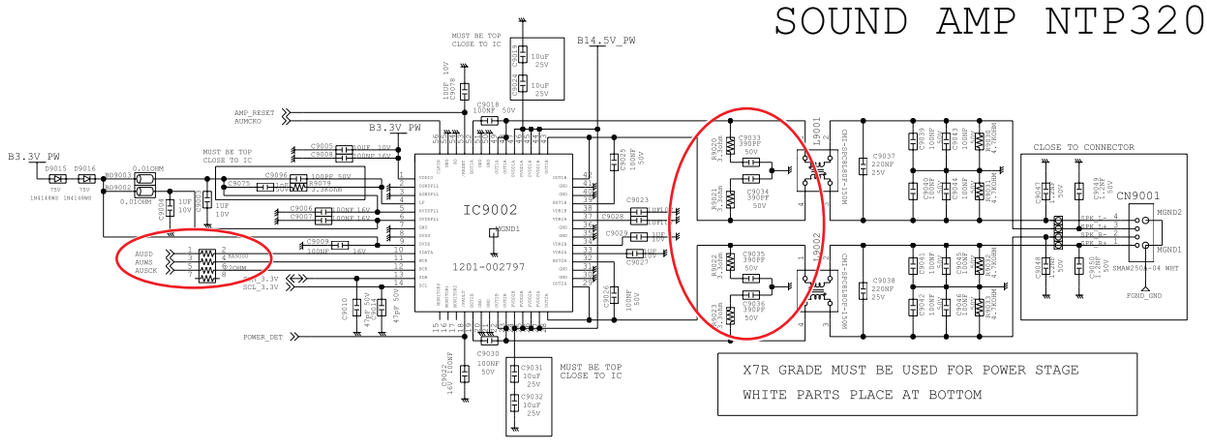
4-7-1. Circuit diagrams and waveforms (No Sound) when no screen is displayed on the monitor



POP NOISE SOLUTION

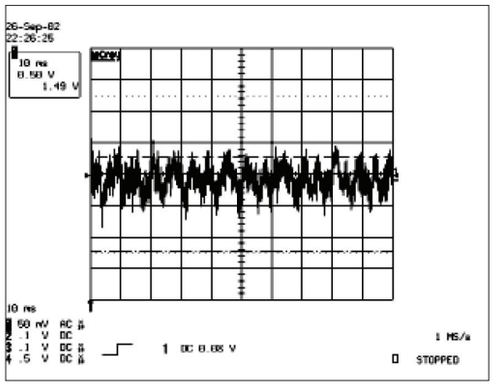


SOUND AMP NTP3200

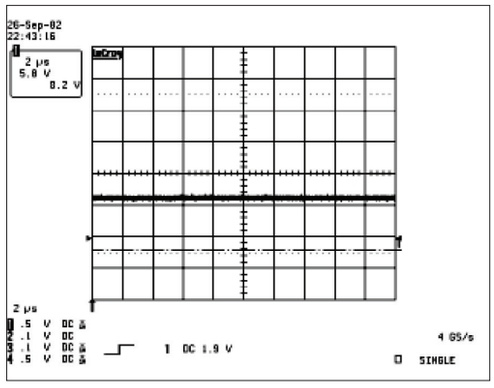


4-7-1. Waveforms when a blank screen is displayed (No Sound)

⑥ The Signal are Inputed to IC9002



⑦ DC 3.3V



4-8. Faults and Corrective Actions

Fault Photo	Symptoms and Corrective Actions	Remarks
	Symptoms: DVI signals are not recognized. Causes: This fault occurs when the PC does not recognize the mode information because the DVI DDC has not been input to the monitor. Corrective Actions: Input the DVI DDC to the monitor.	* Refer to the Training Manual for information on inputting the DVI DDC.
	Symptoms: When the monitor is turned on, only a full white pattern is displayed continually regardless of the signals. Causes: This fault occurs when only the lamp power is supplied and no video signals are input to the panel due to a fault or incorrect connections of the LVDS cable. Corrective Actions: Replace or reconnect the LVDS cable correctly so that video signals can be supplied to the panel.	* A full white pattern is a feature of the TN panel and is displayed when no video signals are supplied.
	Symptoms: When connecting the DVD, noise occurs on the screen. Causes: The HDCP key is not inserted. Corrective Actions: Enter the HDCP key. (See page 4-17.)	

4-9. Adjustment

4-9-1. Service Instruction

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation.
   Check the basic characteristics such as height, horizontal and vertical sync.
2. Use the specified test equipment or its equivalent.
3. Correct impedance matching is essential.
4. Avoid overload. Excessive signal from a sweep generator might overload the front-end
   of the TV. When inserting signal markers, do not allow the marker generator to distort test result.
5. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
6. Do not attempt to connect or disconnect any wire while the TV is turned on. Make sure that the power cord is
   disconnected before replacing any parts.
7. To protect aganist shock hazard, use an isolation transform.

4-10. How to Access Service Mode

4-10-1. Entering Factory Mode

2. To enter “Service Mode” Press the remote -control keys in this sequence :
   - If you do not have Factory remote - control

- If you have Factory remote - control

- The buttons are active in the service mode.

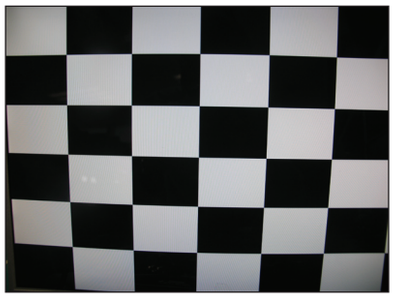
1. Remote - Control Key : Power, Arrow Up, Arrow Down, Arrow Left
   Arrow Right, Menu, Enter, Number Key(0~9)
2. Function - Control Key : Power, CH +, CH -, VOL +, VOL -, Menu, TV/VIDEO(Enter)

4-11. Service Adjustment

4-11-1. White Balance - Calibration

If picture color is wrong, do calibration first.

Equipment : CA210, Patten : chess pattern
Execute calibration in Factory Mode
Source AV : PAL composite, Component : 1280*720/60Hz
PC : 1024*768/60Hz



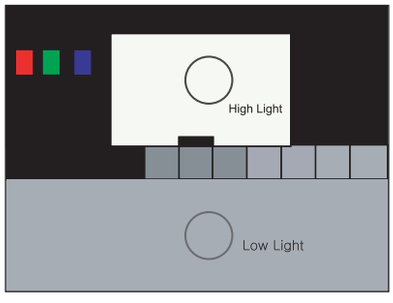
(Gray patten)

4-11-2. White Balance - Adjustment

If picture color is wrong, check White Balance condition.

Equipment : CA210, Patten : Toshiba
Adjust W/B in Factory Mode

Sub brightness and R/G/B Offset controls low light region
Sub contrast and R/G/B Gain controls high light region
Source AV : PAL composite, Component : 1280*720/60Hz
HDMI[DVI] : 1280*720/60Hz



Toshiba Patten

[Test Pattern : MSPG-945 Series Pattern #16]

*Color temperature
1500K +/-500, -6 ~-20 MPCD

*Color coordinate
H/L : 267/263 +/- 2 35.0 Ft +/- 2.0Ft
L/L : 270/260 +/- 3 1.5 Ft +/- 0.2Ft

4-11-3. Conditions for Measurement

1. On the basis of toshiba ABL pattern : High Light level (57 IRE)
- INPUT SIGNAL GENERATOR : MSPG-925LTH

* Mode NO 2 : 744X484@60 Hz
NO 6 : 1280X720@60 Hz
NO 21 : 1024X768@60 Hz

* Pattern NO 36 : 16 Color Pattern
NO 16 : Toshiba ABL Pattern

2. Optical measuring device : CA210 (FL)

Please use the MSPG-925 LTH generator for model LS20TDV/LS22TDV/LS24TDV/LS26TDV.

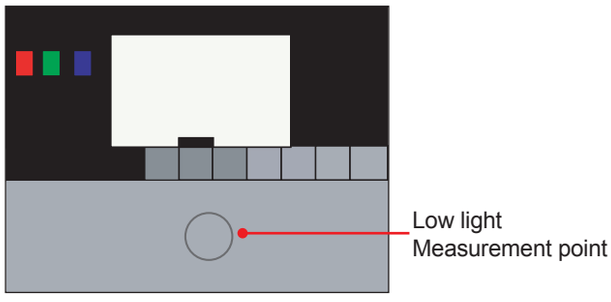
4-11-4. Method of Adjustment

1. Adjust the white balance of AV, Component Modes.
   (AV→Component)
   a) Set the input to the mode in which the adjustment will be made.
      (RF→DTV→PC→DVI).

* Input signal - VIDEO Mode : Model #2 (744*484 Mode), Pattern #16
  - DTV,DVI Mode : Model #6 (1280*720 Mode), Pattern #16
  - HDMI Mode: Model #6(1280*720 Mode), Pattern #16

   b) Enter factory color control, confirm the data.

   c) Adjust the low light. (Refer to table 1, 2 in adjustment position by mode)
      - Adjust sub - Brightness to set the 'Y' value.
      - Adjust red offset ('x') and blue offset ('y') to the color coordinates.



Picture 4-2 Toshiba ABL Pattern

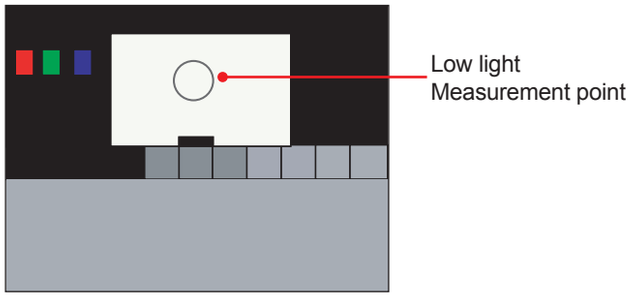
* Do not adjust green offset data.

   d) Adjust the high light. (Refer to table 1, 2 in adjustment position by mode)
      - Adjust red gain ('x') and blue gain ('y') to the color coordinates.

* Do not adjust the green gain and sub-contrast (Y) data.

   d) Adjust the high light. (Refer to table 1, 2 in adjustment position by mode)
      - Adjust red gain ('x') and blue gain ('y') to the color coordinates.

* Do not adjust the green gain and sub-contrast (Y) data.

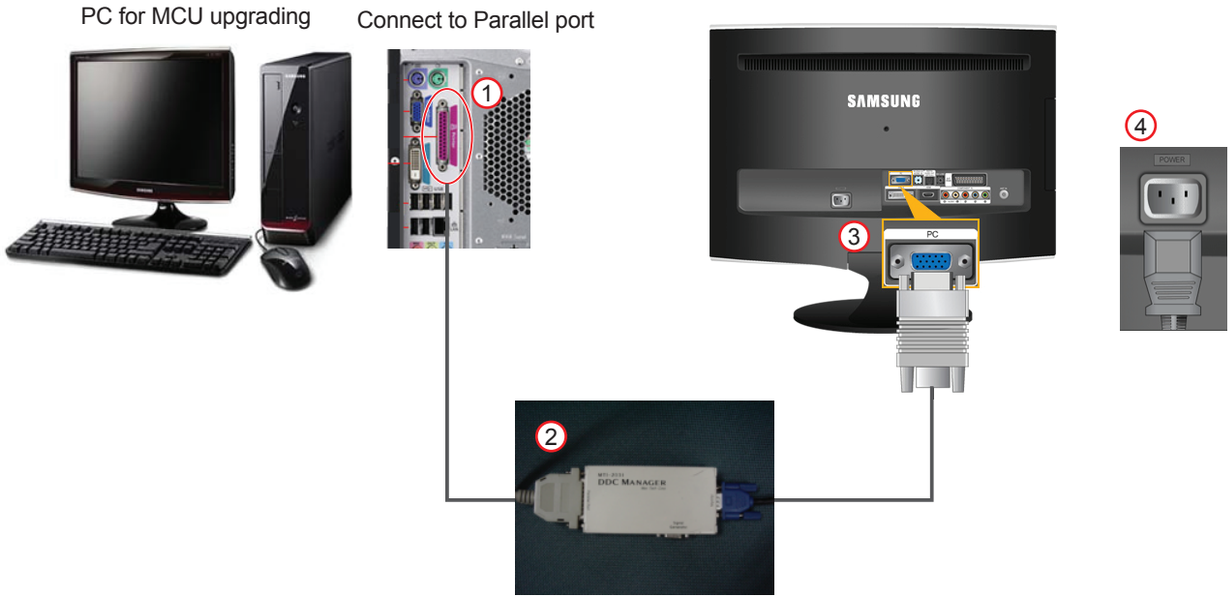


Picture 4-3 Toshiba ABL Pattern

4-12. Software Upgrade

4-12-1. Micom Program Upgrade

■ DDC Manager Connection



1. Prepare PC to Upgrade the Program.
2. Prepare the DDC Manager
3. Connect D-sub cable to Target Monitor TV
4. Power on the Target Monitor TV

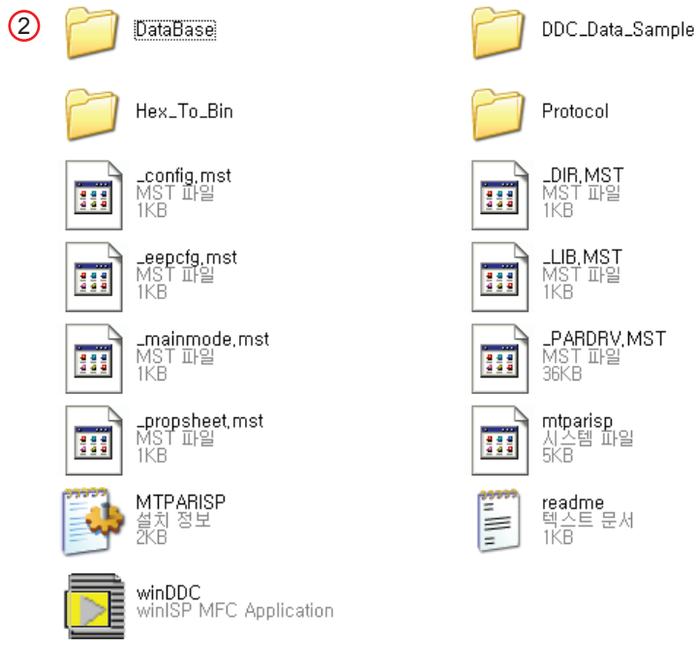
- winDDC_V2-39 Program installed

- Run winDDC

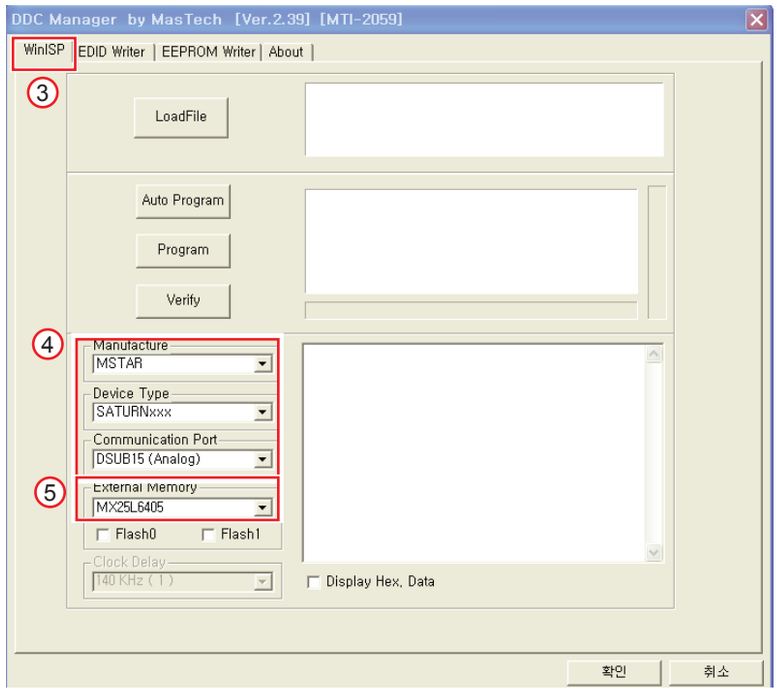
■ Main MIcom Upgrade

1. Goto installed Program folder (winDDC_V2-39)

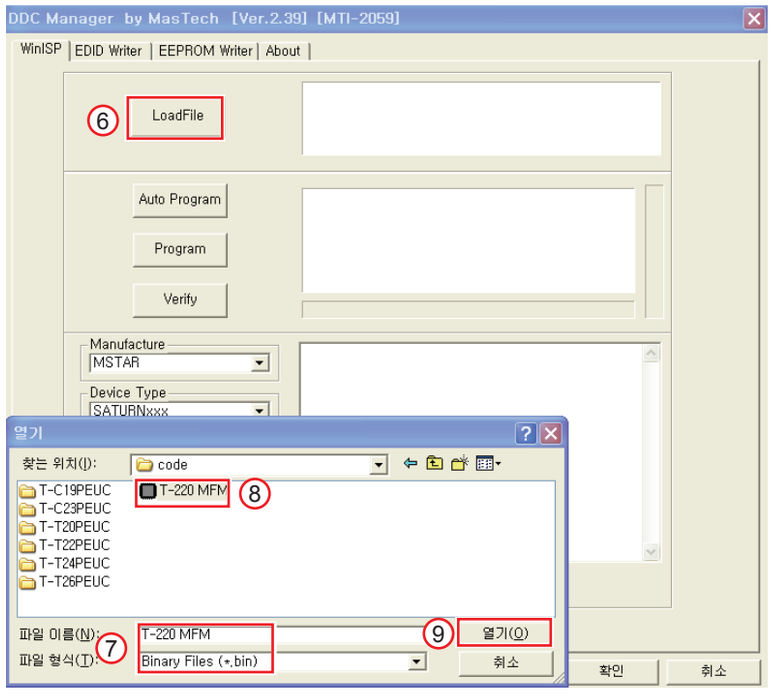
2. Run winDDC



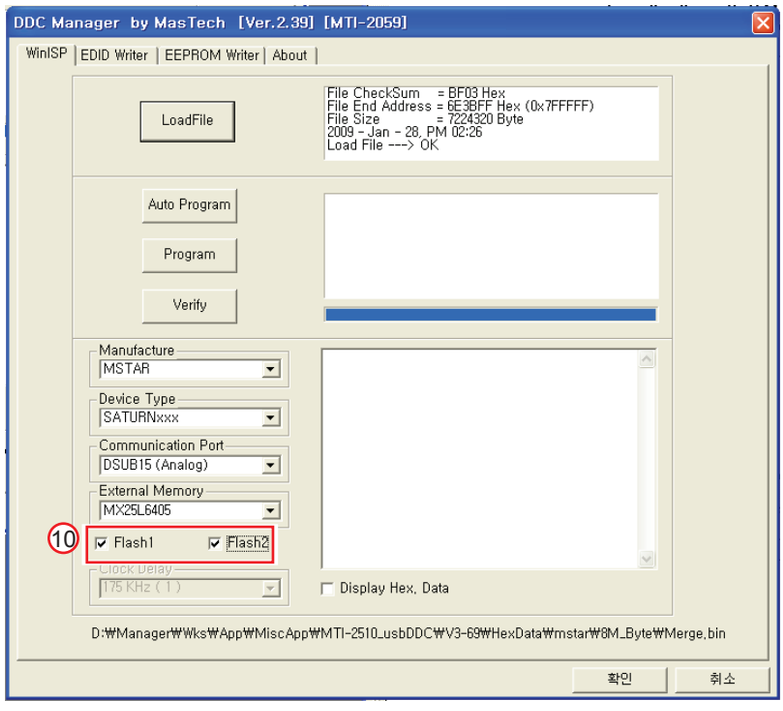
3. Select WinISP Menu
4. Make same setting like picture.
5. Choose Flash memory type
   - CREAM-MFM(2033HD):WT61P8



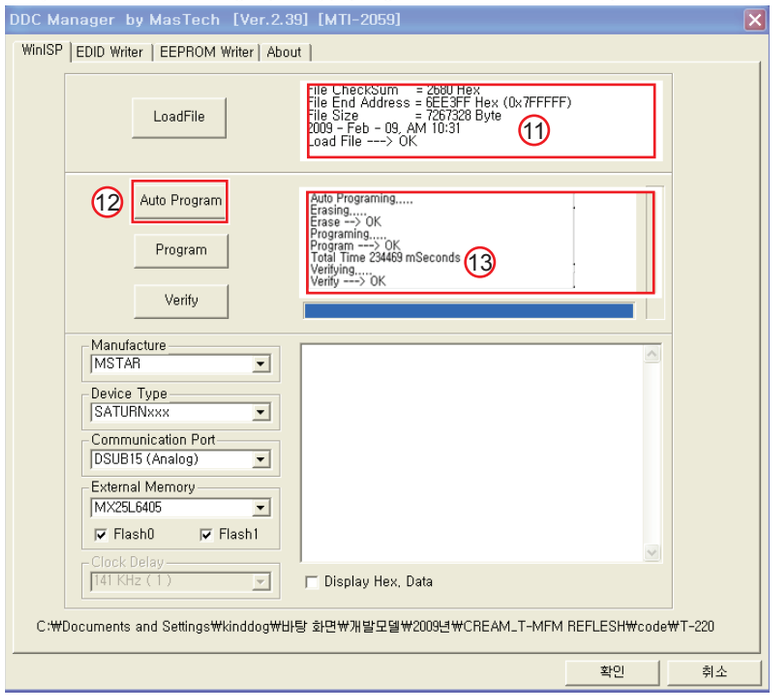
6. Load File (Select file to download)
7. Set Option to load Binary Files
8. Select files (bin file)
9. Click button to load files



10. Select “Flash1” and “Flash2”

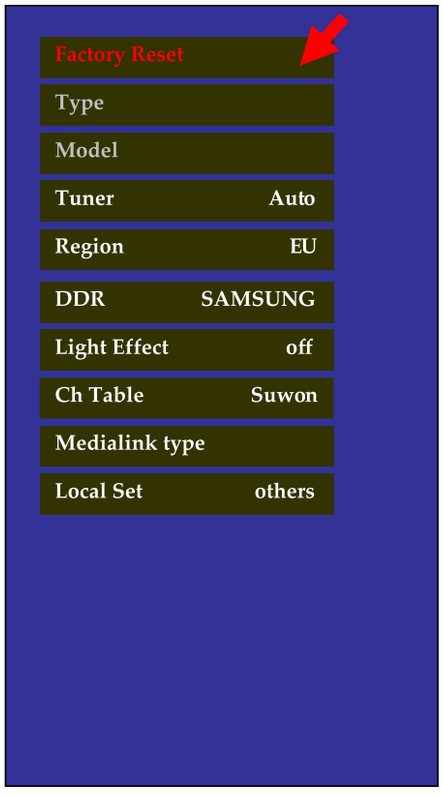


11. Check the OK message (Load)
12. Click Auto Program button
13. If you see OK message (Verify), program download is completed



■ After Upgrading Firmware

Factory mode



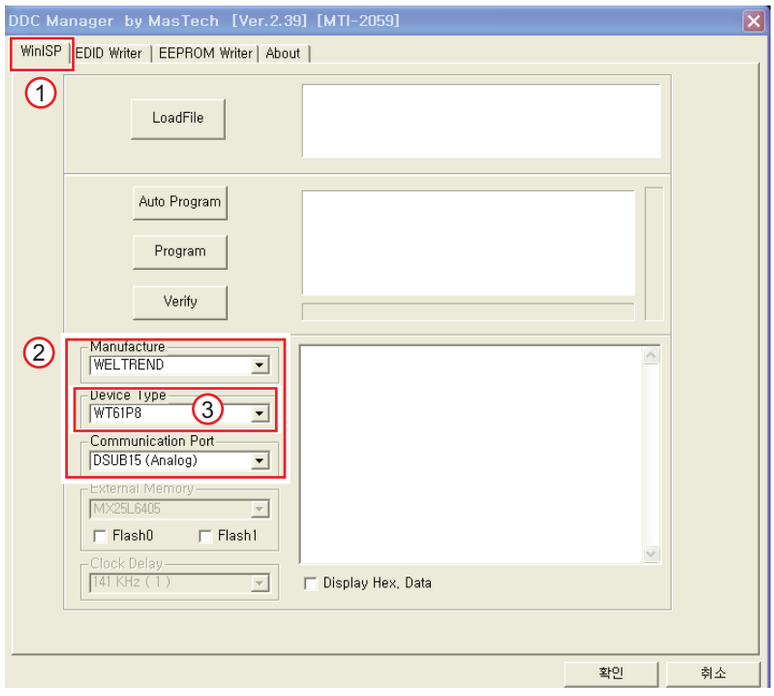
1. Factory remote control
   (SET POWER ON)
   INFO -> Factory

2) Normal Remote control
   (SET POWER OFF)
   INFO -> MENU
   -> MUTE -> POWER

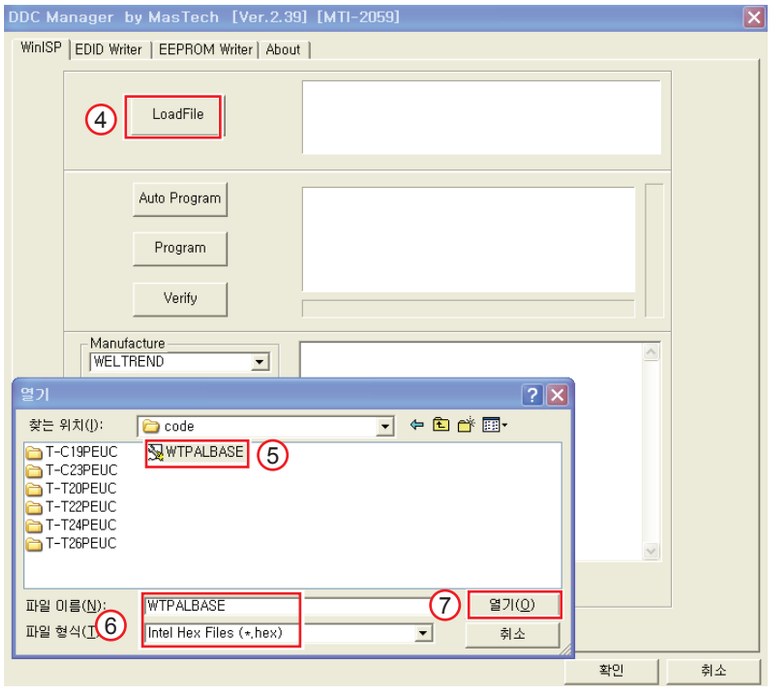
After Reset , Set Power off

■ Sub Micom Upgrade

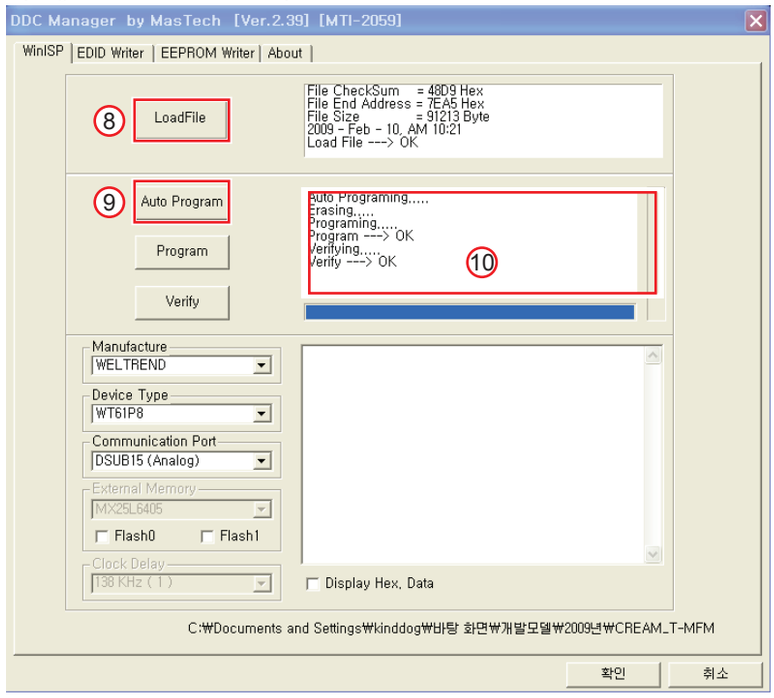
1. Select WinISP Menu
2. Make same setting like picture.
3. Choose Device Type.
   - CREAM-MFM(2033HD):WT61P8



4. Load File (Select file to download)
5. Set Option to load Binary Files
6. Select files (hex file)
7. Click button to load files

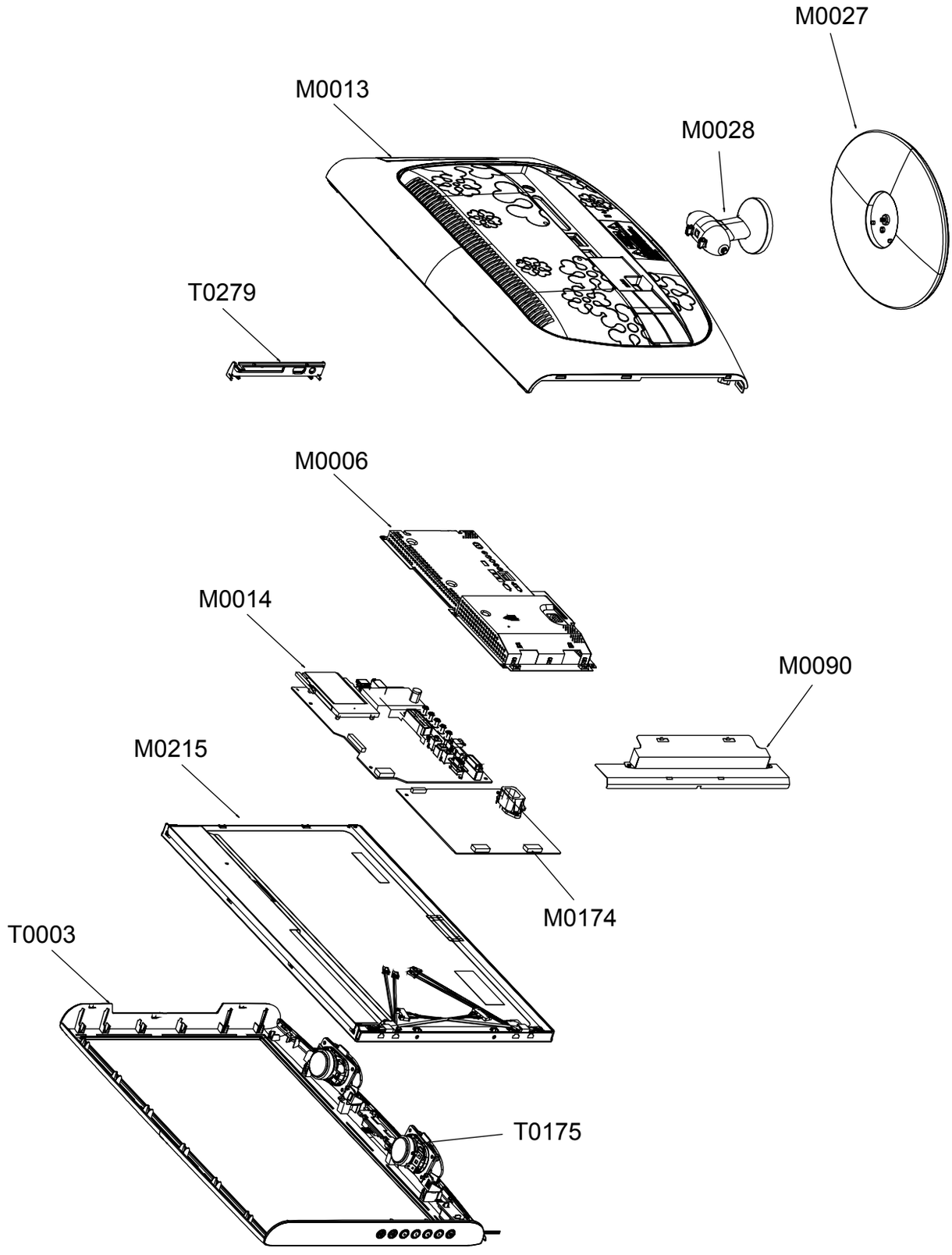


8. Check the OK message (Load)
9. Click Auto Program button
10. If you see OK message (Verify),
    program download is completed



5. Exploded View & Part List

5-1. LS20CFVKF/EN - Exploded View



5-1-1. LS20CFVKF/EN - Parts List

Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
M0006	BN96-11624A	ASSY SHIELD P-COVER;LS20CF (MFM),SECC,T0	1	S.N.A	
M0013	BN96-11622A	ASSY COVER P-REAR;CREAM 20(MFM),ABS,HB,B	1	S.A	
M0014	BN94-01893W	ASSY PCB MAIN;LS20CFVKFV/EN	1	S.A	
M0027	BN96-08556A	ASSY STAND P-BASE;Cream-MFM 18.5,ABS HB,	1	S.A	
M0028	BN96-08101A	ASSY STAND P-BAR;2233BW,ABS HB,BK23,GLOS	1	S.A	
M0174	BN44-00177D	IP BOARD;PWI2204ST(A),T 20" MFM,1.4 ~2.8	1	S.A	
M0215	BN07-00595A	LCD-PANEL;LTM200KT01	1	S.A	
T0003	BN96-11621A	ASSY COVER P-FRONT;LS20CF (2033HD),ABS H	1	S.A	
T0175	BN96-08732A	ASSY SPEAKER P;16ohm,4pin,cream 18.5",3W	1	S.A	
T0279	BN63-04961A	COVER-JACK;933HD,PC+ABS,5V,BK23,H/GLOSSY	1	S.N.A	
M0090	BN96-11912A	ASSY SHIELD P-LAMP;CREAM 20(MFM),SPTE,T	1	S.N.A	

5-2. LS20CFVKF/EN - Parts List

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
		LS20CFVKF/EN	2033HD,UVA3/S20V0-LCF,20,LCD-MO,NETHERLA			
0.1	M0001	BN90-02273A	ASSY COVER FRONT;CREAM 20(MFM),EUROPE	1	S.N.A	
..2		6003-001023	SCREW-TAPTYPE;PWH,+,-,B,M3,L10,ZPC(WHT),	4	S.N.A	
..2	T0175	BN96-08732A	ASSY SPEAKER P;16ohm,4pin,cream 18.5",3W	1	S.A	
..2	T0003	BN96-11621A	ASSY COVER P-FRONT;LS20CF (2033HD),ABS H	1	S.A	
...3	CCM1	BN63-02183D	COVER-SHEET;Rhcm,PE Vinyl,T0.05,680mm,20	0.5	S.N.A	
...3	M0112	BN63-05932A	COVER-FRONT;LS20CF,ABS,HB,BK23,H/GLOSSY	1	S.N.A	
...3	T0056	BN63-05936A	COVER-DECORATION;LS20CF,PC,CLEAR	1	S.N.A	
...3	T0022	BN64-00953A	KNOB-CONTROL;933HD,PMMA ABS,HB,BK23,H/GL	1	S.N.A	
...3	T0238	BN64-00954A	WINDOW REMOCON;933HD,PC,V0,VIOLET	1	S.N.A	
...3	M0105	BN67-00229A	LENS-LED;2233BW,PC,TP26	1	S.N.A	
...3	M0145	BN96-08737B	ASSY BOARD P-FUNCTION;SM933HD,CT5000-630	1	S.A	
...3		BN81-01805C	A/S-TAPE-FILAMENT;ELMATIT,T0.1,W12,L1200	1	S.N.A	
...3		BN63-01151C	FELT-NON WOVEN;SP20UO,FELT,T0.5,5,450	1	S.N.A	
0.1	M0002	BN90-02274A	ASSY COVER REAR;CREAM 20(MFM),EUROPE	1	S.N.A	
..2	M0013	BN96-11622A	ASSY COVER P-REAR;CREAM 20(MFM),ABS,HB,B	1	S.A	
...3		6003-000282	SCREW-TAPTYPE;BH,+,-,B,M3,L8,ZPC(BLK),SW	3	S.N.A	
...3		6003-001003	SCREW-TAPTYPE;BH,+,B,M4,L12,ZPC(BLK),SWR	4	S.N.A	
...3	M0113	BN61-01581A	BRACKET-VESA;BI17/19BS,SECC,T1.0	2	S.N.A	
...3	CCM1	BN63-02183D	COVER-SHEET;Rhcm,PE Vinyl,T0.05,680mm,20	0.5	S.N.A	
...3	M0006	BN63-05934A	COVER-REAR;LS20CF,ABS,HB,BK23,H/GLOSSY	1	S.N.A	
...3		BN96-09957A	ASSY COVER P-HINGE;LS22CM	1	S.N.A	
....4	T0060	BN61-02830A	SPRING ETC;PEBBLE,SK5,1.0,LS19PEB,HRC 45	1	S.N.A	
....4	M0014	BN63-04687A	COVER-STAND BAR;2233BW,ABS,HB,BK23	1	S.N.A	
....4		BN63-04688A	COVER-HINGE;2233BW,ABS,HB,BK23	1	S.N.A	
....4	T0102	BN73-00179A	RUBBER-CAP;2233BW,ELASTOMER HB,BK07	1	S.N.A	
...3	T0530	BN96-11623A	ASSY COVER P-DOOR CONTROL;LS20EM,ABS HB,	1	S.A	
....4	CCM1	BN63-02183D	COVER-SHEET;Rhcm,PE Vinyl,T0.05,680mm,20	0.07	S.N.A	
....4	T0151	BN64-01127A	DOOR-CONTROL;LS20CF,ABS HB,BK23	1	S.N.A	
...3	T0071	BN64-00957C	INLAY-TERMINAL;2033HD,PS SHEET,T0.5	1	S.N.A	
...3	M0090	BN96-11912A	ASSY SHIELD P-LAMP;CREAM 20(MFM),SPTE,T	1	S.N.A	
...3	T0069	AA60-00171T	SPACER-FELT;56L7,FELT,50,T0.5,8	1	S.N.A	
...3	T0069	AA60-00171Z	SPACER-FELT;ECOFIT 23"(P2370),FELT,L100.	1	S.N.A	
...3		BN61-03947A	GUIDE-CONTROL;T200D / T220D / T240D / T2	2	S.N.A	
..2	M0028	BN96-08101A	ASSY STAND P-BAR;2233BW,ABS HB,BK23,GLOS	1	S.A	
...3		BN61-02786A	BRACKET-PLATE;PEBBLE,SECC,1.0	1	S.N.A	
...3		BN61-04251A	STAND-BAR;2233BW,ABS,HB,BK23,Glossy	1	S.N.A	
...3	CCM1	BN63-02183D	COVER-SHEET;Rhcm,PE Vinyl,T0.05,680mm,20	0.2	S.N.A	
...3		6003-000115	SCREW-TAPTYPE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.N.A	
..2		6003-001086	SCREW-TAPTYPE;BH,+,-,B,M3,L12,ZPC(BLK),S	2	S.A	
0.1	M0019	BN91-02220P	ASSY LCD;LS23EMDKU/EN	1	S.N.A	
..2	M0215	BN07-00595A	LCD-PANEL;LTM200KT01	1	S.A	
0.1	M0017	BN91-04234P	ASSY CHASSIS;LS20CFVKFV/EN	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
..2	IP/BO+S/CO	6003-001023	SCREW-TAPTYPE;PWH,+,-,B,M3,L10,ZPC(WHT),	3	S.N.A	
..2	MAIN+S/CO	6003-001023	SCREW-TAPTYPE;PWH,+,-,B,M3,L10,ZPC(WHT),	4	S.N.A	
..2	IP/BO+S/CO	6003-001439	SCREW-TAPTYPE;BH,+,S,M4,L8,ZPC(WHT),SWRC	1	S.N.A	
..2	M0174	BN44-00177D	IP BOARD;PWI2204ST(A),T 20" MFM,1.4 ~2.8	1	S.A	
..2	T0514	BN61-04468A	BRACKET-SUPPORT;933HD,SPTE,T0.3	1	S.N.A	
..2	T0279	BN63-04961A	COVER-JACK;933HD,PC+ABS,5V,BK23,H/GLOSSY	1	S.N.A	
..2	CCMM1	BN73-00125A	SILICON/RUBBER;SPL07,SILICON+ALUMINA,W20	1	S.N.A	
..2	CCMM1	BN73-00152A	SILICON/RUBBER;LNT4661FX/XAA,FILLER,19x1	1	S.N.A	
..2	CCMM1	BN73-00197A	SILICON/RUBBER;T-MFM,SILICON,13X13X5	1	S.N.A	
..2	CCMM1	BN73-00197A	SILICON/RUBBER;T-MFM,SILICON,13X13X5	1	S.N.A	
..2	M0014	BN94-01893W	ASSY PCB MAIN;LS20CFVKFV/EN	1	S.A	
...3	SUB02	0202-001557	SOLDER-CREAM;LST57-A,D38-63,42SN/57BI/1A	11	S.N.A	
...3	T0245	0202-001608	SOLDER-WIRE FLUX;LFC7-107,D0.8,99.3Sn/0.	0.25	S.N.A	
...3	CN8003	3701-001385	CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,AU	1	S.A	
...3	CN901	3701-001386	CONNECTOR-DVI;24P,3R,FEMALE,AU	1	S.A	
...3	CN6002	3701-001388	CONNECTOR-HDMI;20P,Phosphor Bronze,ANGLE	1	S.A	
...3	CN906	3707-001081	CONNECTOR-OPTICAL;STRAIGHT,SPDIF	1	S.A	
...3	CN1000	3709-001508	CONNECTOR-CARD SLOT;68P,1.27mm,PIN,PCMCI	1	S.A	
...3	CN330	3711-006715	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5mm,AN	1	S.N.A	
...3	JA3201_EU	3722-000498	JACK-SCART;21P,SN,BLK	1	S.A	
...3	JA330	3722-002176	JACK-PHONE;7P/4C,SN,L-BLU,STRAIGHT	1	S.A	
...3	CN4001	3722-002516	JACK-USB;4P/1C,AU30U,BLK,STRAIGHT,A TYPE	1	S.A	
...3	CN3002	3722-002680	JACK-EAR PHONE;6P,NiSn,BLK,ANGLE	1	S.A	
...3	JA333	3722-002702	JACK-PIN;3P,Ni,GRN/BLU/RED,STRAIGHT	1	S.A	
...3	JA333	3722-002781	JACK-PIN;2P(Shield),Ni,WHT/RED,straight	1	S.A	
...3	TUNER_ GASK	AA63-01388A	GASKET-EMI,SPONGE;SP-P300M,Conductive Fa	1	S.A	
...3	CIS3	BN40-00137A	TUNER;DNOQ403SH151A(S),DNOQ403SH151A(S),	1	S.A	
...3	HDCP	BN97-00707A	ASSY HDCP;BN46-00018A,BR20/21BS_CS,MSTAR	1	S.N.A	
....4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A	
...3	T0510	BN97-02567H	ASSY SMD-MAIN;LS20CFVKFV/EN	1	S.N.A	
....4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,D20~45um,96.5Sn/3A	3.39	S.N.A	
....4	D3003_CEC	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D6009	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D6011	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D6050	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D6051	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D809	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D810	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D812	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D905	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D910	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D3100_CEC	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D4080	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D6100	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D9001	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D9002	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D9004	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D9005	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D9015	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D9016	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	D0254	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A	
....4	D0254	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A	
....4	D1003	0402-001098	DIODE-RECTIFIER;SK34,40V,3A,SMC,TP	1	S.N.A	
....4	D1004	0402-001098	DIODE-RECTIFIER;SK34,40V,3A,SMC,TP	1	S.N.A	
....4	D1030	0402-001614	DIODE-RECTIFIER;S1G,400V,1A,DO-214AC,TP	1	S.A	
....4	D10001	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D4001	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D4003	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D4332	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D5007	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D5011	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D5012	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D5013	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D5014	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D5016	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D5017	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D6001	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D6002	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D6017	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D6052	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D6631	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7004	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7008	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7009	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7012.	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7014	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7100_EU	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7101_EU	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7102_EU	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7103_EU	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7105	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7116	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7117	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7118	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D803	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D804	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D805	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D806	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D808	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D9003	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D907	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D3501	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	D0254	0404-001271	DIODE-SCHOTTKY;SSA34,40V,3000mA,SMA,TP	1	S.A	
....4	D4002	0406-001200	DIODE-TVS;RCLAMP0504F,6/-/-V,150W,SC-70	1	S.A	
....4	D6005	0406-001299	DIODE-TVS;CM1224-04MR,MSOP-10	1	S.A	
....4	D6007	0406-001299	DIODE-TVS;CM1224-04MR,MSOP-10	1	S.A	
....4	D6008	0406-001299	DIODE-TVS;CM1224-04MR,MSOP-10	1	S.A	
....4	D6010	0406-001299	DIODE-TVS;CM1224-04MR,MSOP-10	1	S.A	
....4	D903	0406-001299	DIODE-TVS;CM1224-04MR,MSOP-10	1	S.A	
....4	D904	0406-001299	DIODE-TVS;CM1224-04MR,MSOP-10	1	S.A	
....4	D6032	0407-000123	DIODE-SWITCHING;DAN202K,80V,100mA,SOT-23	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	D6033	0407-000123	DIODE-SWITCHING;DAN202K,80V,100mA,SOT-23	1	S.N.A	
....4	D6034	0407-000123	DIODE-SWITCHING;DAN202K,80V,100mA,SOT-23	1	S.N.A	
....4	Q1004	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q1005	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q1011	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q1012	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q1013	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q3002	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q3109	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q6003	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q7003	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q7006	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q9005	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q7005	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A	
....4	Q1030	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
....4	Q4200	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	S.A	
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	S.A	
....4	Q409	0505-002169	FET-SILICON;Si4435BDY-T1-E3,P,-30V,-9.1A	1	S.N.A	
....4	IC104	0801-002198	IC-CMOS LOGIC;74LVC14,INVERTER,SOP,14P,1	1	S.A	
....4	IC104	0801-002779	IC-CMOS LOGIC;74LVC1G125,BUS BUFFER,SOT-	1	S.N.A	
....4	IC520	0903-001552	IC-MICROCONTROLLER;WT61P8-RG480WT,LQFP,4	1	S.N.A	
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8,SOP,8P,5x4mm	1	S.A	
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8,SOP,8P,5x4mm	1	S.A	
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8,SOP,8P,5x4mm	1	S.A	
....4	IC112	1103-001310	IC-EEPROM;24LC02B,256X8BIT,SOIC,8P,3.91X	1	S.N.A	
....4	IC112	1103-001441	IC-EEPROM;24C1024,1Mbit,128Kx8,SOP,8P,4.	1	S.A	
....4	IC8005	1105-001931	IC-DDR2 SDRAM;K4T51163Q,DDR2-800,512Mbit	1	S.N.A	
....4	IC8006	1105-001931	IC-DDR2 SDRAM;K4T51163Q,DDR2-800,512Mbit	1	S.N.A	
....4	IC115	1107-001777	IC-FLASH MEMORY;MX25L6405DMI-12G,64Mbit,	1	S.A	
....4	DU410	1201-000166	IC-OP AMP;LM358,SOP,ST,8P,150MIL,DUAL,10	1	S.A	
....4	T0085	1201-002487	IC-AUDIO AMP;MAX9728A,QFN,12P,3x3mm,DUAL	1	S.A	
....4	T0124	1201-002797	IC-POWER AMP;NTP-3200,QFN,56P,8x8mm,DUAL	1	S.A	
....4	T0085	1201-002849	IC-AUDIO AMP;DRV603,TSSOP,14P,5x4.4mm,DU	1	S.A	
....4	T0087	1203-001815	IC-POSI.FIXED REG.;78M09,TO-252,3P,PLAST	1	S.A	
....4	T0087	1203-002842	IC-POSI.FIXED REG.;AP1117D-33A,TO-252,3P	1	S.A	
....4	IC012	1203-002995	IC-POSI.ADJUST REG.;AP1117D-A,TO-252,3P,	1	S.A	
....4	IC012	1203-002995	IC-POSI.ADJUST REG.;AP1117D-A,TO-252,3P,	1	S.A	
....4	T0170	1203-003059	IC-SWITCH VOL. REG.;MP1583,SOIC,8P,4.9x3	1	S.A	
....4	IC3002	1203-004363	IC-VOL. DETECTOR;RT9818C-29PV,SOT-23,3P,	1	S.A	
....4	IC9003	1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	S.A	
....4	IC150	1203-005113	IC-SWITCH REG.;SPN030039Y,MSOP,10P,3x3mm	1	S.A	
....4	IC1010	1203-005279	IC-DC/DC CONVERTER;MP2372DN,SOP,8P,4.9x3	1	S.A	
....4	IC1012	1203-005279	IC-DC/DC CONVERTER;MP2372DN,SOP,8P,4.9x3	1	S.A	
....4	T0170	1203-005463	IC-SWITCH VOL. REG.;MIC2605YML,MLF,8P,2x	1	S.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	IC3007	1205-003201	IC-BUS SWITCH;TC7WB125FK,SSOP,8P,2x2.3mm	1	S.A	
....4	IC5090	1205-003201	IC-BUS SWITCH;TC7WB125FK,SSOP,8P,2x2.3mm	1	S.A	
....4	IC1002	1205-003479	IC-SWITCH;TPS2051BDBVR,SOT-23,5P,2.9x1.6	1	S.A	
....4	IC6500	1205-003479	IC-SWITCH;TPS2051BDBVR,SOT-23,5P,2.9x1.6	1	S.A	
....4	D3236	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	D3237	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	D3238	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	D5015	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	D5018	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	D5019	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	D5020	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	D7003	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	D7007	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	D7010	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	D7013	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	D924	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	R1203	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1301	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R9930_EU	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R9933_EU	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1029	2007-000067	R-CHIP;15Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1075_22	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R3603	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R3604	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R3606	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R4101_26	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R804	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R806	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R916	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R917	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R812	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R813	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R922	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R923	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R3005	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R3006	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R3007	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R3008	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R3061_SCL_	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R3062_ SDA_	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R805	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R915	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R4251	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	S.A	
....4	R4255	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	S.A	
....4	R4253	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A	
....4	R4256	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A	
....4	R9931_EU	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A	
....4	R9932_EU	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A	
....4	R3110	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R3601	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R3602	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R4316	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R818	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R819	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R816	2007-000081	R-CHIP;2.7Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R1072	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1073	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R3052	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R3063_SDA	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R3064_SCL	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R4250	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R4257	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R4260	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R5090	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1011	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1012	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1014	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1028	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1036	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1037	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1055	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1060	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1081	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R3500	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R3501	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R4096_PWM	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R4258	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R4259	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R6800	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R810	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R811	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R817	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R919	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R921	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R9001	2007-000091	R-CHIP;12Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R9002	2007-000091	R-CHIP;12Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R9214_EU	2007-000096	R-CHIP;30Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R9215_EU	2007-000096	R-CHIP;30Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R9218_EU	2007-000096	R-CHIP;30Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R9219_EU	2007-000096	R-CHIP;30Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1031	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R4592	2007-000121	R-CHIP;820ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R1040	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R1302	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R10003	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10134	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3010	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3018	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3022	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3025	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3026	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R3027	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3028	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3046	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3200_CEC	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3210	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3292	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4036	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4050	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4051	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4099	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4301	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4302	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4344	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4640_ NON_	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5042	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7022	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7024	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8036	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8037	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9177	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3293	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3294	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6012	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6052	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3100	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4076	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4082	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1057	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3101	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3102	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3103	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3108	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4666_HD	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4667_FHD	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4668_ 2DDR	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4669_ 1DDR	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6017	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6053	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6064	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9028	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9030	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9031	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9032	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9033	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7019	2007-000146	R-CHIP;6.8Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10007	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10008	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10031	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	

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....4	R10032	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10101	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10121	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10122	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10135	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10136	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10200	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3014	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3015	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3051	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3060	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3066	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3090	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3091	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3099	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3410	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4081	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4130	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4140	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4200_ANA	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4201_PWM	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4475	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4484	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4489	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4490	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4491	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4541	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4544	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4626_SLIM	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4627_SLIM	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5017	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5018	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5024	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5025	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5068	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6026	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6028	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6029	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6050	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6058	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6059	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6065	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7023	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7025	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7039	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9019	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9025	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9216_EU	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9217_EU	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7058	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1051	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R1052	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1056	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4456	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4477	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4555	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4568	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7057	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3004_CEC	2007-000155	R-CHIP;27Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1010	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7007	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7009	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1035	2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4045	2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1300_PWM	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4700	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4701	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4702	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4703	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6016	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6051	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8306	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8307	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8323	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8325	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8326	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8333	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8335	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8336	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8349	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8355	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8357	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8358	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8404	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8430	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8438	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8496	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8638	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3290	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3291	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3402	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3403	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4005	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4006	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4017	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4022	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4333	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4334	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4343	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4345	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4590	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4591	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R5028	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5029	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5031	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5055	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5056	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6034	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6035	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6111	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6112	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7034	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7035	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7036	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5064	2007-000640	R-CHIP;270ohm,1%,1/10W,TP,1608	1	S.A	
....4	R5067	2007-000640	R-CHIP;270ohm,1%,1/10W,TP,1608	1	S.A	
....4	R1083	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	S.A	
....4	R9020	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	S.A	
....4	R9021	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	S.A	
....4	R9022	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	S.A	
....4	R9023	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	S.A	
....4	R1306	2007-000701	R-CHIP;3.6Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R5571	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R4587	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1032	2007-000839	R-CHIP;39ohm,5%,1/10W,TP,1608	1	S.A	
....4	R1013	2007-000869	R-CHIP;4.7Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R5087	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7043	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7077	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9080	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1033	2007-000939	R-CHIP;47Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R3404_CEC	2007-001038	R-CHIP;56Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R802	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R803	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R807	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R7054	2007-001217	R-CHIP;82ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6055	2007-001285	R-CHIP;5.6ohm,5%,1/16W,TP,1005	1	S.A	
....4	R6056	2007-001285	R-CHIP;5.6ohm,5%,1/16W,TP,1005	1	S.A	
....4	R1200	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1303	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4132	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4133	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4134	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4142	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4143	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4144	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4401	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4402	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4403	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4404	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4405	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4406	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4407	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R4408	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4409	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4410	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4411	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4412	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7055	2007-001298	R-CHIP;51ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8017	2007-001306	R-CHIP;150ohm,5%,1/16W,TP,1005	1	S.A	
....4	R8117	2007-001306	R-CHIP;150ohm,5%,1/16W,TP,1005	1	S.A	
....4	R7052	2007-001307	R-CHIP;180ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1204	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1304	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R9079	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5021	2007-001333	R-CHIP;18Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5026	2007-001333	R-CHIP;18Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5027	2007-001333	R-CHIP;18Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5034	2007-001333	R-CHIP;18Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7011_EU	2007-001333	R-CHIP;18Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7030	2007-001333	R-CHIP;18Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7032	2007-001333	R-CHIP;18Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1022	2007-002425	R-CHIP;1ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R1210	2007-002425	R-CHIP;1ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R5899	2007-002425	R-CHIP;1ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R1015	2007-002899	R-CHIP;10ohm,1%,1/10W,TP,1608	1	S.A	
....4	R1082	2007-002900	R-CHIP;11Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R5043	2007-002906	R-CHIP;200Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R6001	2007-002906	R-CHIP;200Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R6054	2007-002906	R-CHIP;200Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R10011	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10012	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10013	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10123	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10124	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R10125	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5004	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5008	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5012	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5044	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7001	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7010	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7012_EU	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7014	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7015	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7020_EU	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4594	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R5046	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R9016	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R9017	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R1205	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R1305	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R2016	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R4095	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R4352	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R2037	2007-007156	R-CHIP;1ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5570	2007-007297	R-CHIP;110ohm,1%,1/10W,TP,1608	1	S.A	
....4	R8329	2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R8330	2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R8363	2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R8364	2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R9190	2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R2022	2007-007319	R-CHIP;390ohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R2027	2007-007650	R-CHIP;274ohm,1%,1/10W,TP,1608	1	S.A	
....4	R2026	2007-007721	R-CHIP;560ohm,1%,1/10W,TP,1608	1	S.A	
....4	R4094	2007-007791	R-CHIP;9.1Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R4351	2007-007791	R-CHIP;9.1Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	RA3007	2011-000515	R-NETWORK;4.7Kohm,5%,1/16W,L,CHIP,8P,TP,	1	S.N.A	
....4	RA4101	2011-000585	R-NETWORK;47ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.N.A	
....4	RA4000	2011-000651	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.N.A	
....4	RA4001	2011-000651	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.N.A	
....4	RA4002	2011-000651	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.N.A	
....4	RA4003	2011-000651	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.N.A	
....4	RA4004	2011-000651	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.N.A	
....4	RA4005	2011-000651	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.N.A	
....4	RA904	2011-000651	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.N.A	
....4	RA905	2011-000651	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.N.A	
....4	RA3001	2011-001011	R-NETWORK;10Kohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A	
....4	RA4102	2011-001011	R-NETWORK;10Kohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A	
....4	R10004	2011-001087	R-NETWORK;75ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A	
....4	R10010	2011-001087	R-NETWORK;75ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A	
....4	R10126	2011-001087	R-NETWORK;75ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A	
....4	R10127	2011-001087	R-NETWORK;75ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A	
....4	R3024	2011-001093	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A	
....4	RA3002	2011-001093	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A	
....4	RA3003	2011-001093	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A	
....4	RA3004	2011-001093	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A	
....4	RA3006	2011-001093	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A	
....4	RA4014	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8321	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8322	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8324	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8327	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8401	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8402	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8403	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8405	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8406	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8407	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8408	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8409	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8410	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8433	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8434	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8435	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R8436	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8437	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R8504	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	RA9000	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	C9047	2203-000125	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608,-	1	S.A	
....4	C9048	2203-000125	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608,-	1	S.A	
....4	C9049	2203-000125	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608,-	1	S.A	
....4	C9050	2203-000125	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608,-	1	S.A	
....4	C1034	2203-000181	C-CER,CHIP;100nF,+80-20%,25V,Y5V,TP,2012	1	S.A	
....4	C1030	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.N.A	
....4	C1036	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.N.A	
....4	C1060	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.N.A	
....4	C1064	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.N.A	
....4	C1074	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.N.A	
....4	C1075	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.N.A	
....4	C811	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.N.A	
....4	C5027	2203-000221	C-CER,CHIP;100nF,20%,50V,Y5V,TP,3216	1	S.A	
....4	C7009_EU	2203-000233	C-CER,CHIP;.1nF,5%,50V,C0G,TP,1005	1	S.A	
....4	C9096	2203-000233	C-CER,CHIP;.1nF,5%,50V,C0G,TP,1005	1	S.A	
....4	C802	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.N.A	
....4	C809	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.N.A	
....4	C9930_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.N.A	
....4	C9933_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.N.A	
....4	C1061	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C614	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C9313_EU	2203-000330	C-CER,CHIP;.012nF,5%,50V,C0G,TP,1005	1	S.A	
....4	C9319_EU	2203-000330	C-CER,CHIP;.012nF,5%,50V,C0G,TP,1005	1	S.A	
....4	C1062	2203-000405	C-CER,CHIP;0.18nF,5%,50V,C0G,1608	1	S.N.A	
....4	C3006	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C4041	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C4322	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C4353	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C4422	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C8332	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C8367	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C9075	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C9400	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C4456	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	S.A	
....4	C4457	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	S.A	
....4	C4478	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	S.A	
....4	C4479	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	S.A	
....4	C9037	2203-000575	C-CER,CHIP;220nF,10%,25V,X7R,TP,2012	1	S.N.A	
....4	C9038	2203-000575	C-CER,CHIP;220nF,10%,25V,X7R,TP,2012	1	S.N.A	
....4	C3010	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.N.A	
....4	C3011	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.N.A	
....4	C808	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.N.A	
....4	C1063	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,1608	1	S.N.A	
....4	C7002_EMS	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,1608	1	S.N.A	
....4	C7006_EMS	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,1608	1	S.N.A	
....4	C9033	2203-000838	C-CER,CHIP;0.39NF,5%,50V,C0G,TP,1608	1	S.A	
....4	C9034	2203-000838	C-CER,CHIP;0.39NF,5%,50V,C0G,TP,1608	1	S.A	

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....4	C9035	2203-000838	C-CER,CHIP;0.39NF,5%,50V,C0G,TP,1608	1	S.A	
....4	C9036	2203-000838	C-CER,CHIP;0.39NF,5%,50V,C0G,TP,1608	1	S.A	
....4	C4996	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C4997	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C4999	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C3502	2203-001071	C-CER,CHIP;0.056nF,5%,50V,C0G,TP,1608	1	S.N.A	
....4	C1105	2203-001103	C-CER,CHIP;6.8nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C1303	2203-001103	C-CER,CHIP;6.8nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C1015	2203-001126	C-CER,CHIP;0.68nF,10%,50V,X7R,1608	1	S.N.A	
....4	C4038	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	1	S.N.A	
....4	C4039	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	1	S.N.A	
....4	C4492	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	1	S.N.A	
....4	C5001	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	1	S.N.A	
....4	C5005	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	1	S.N.A	
....4	C5007	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	1	S.N.A	
....4	C7004_EU	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	1	S.N.A	
....4	C7025	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	1	S.N.A	
....4	C1040	2203-001554	C-CER,CHIP;1.8nF,10%,50V,X7R,1608	1	S.A	
....4	C2015	2203-001596	C-CER,CHIP;2200nF,+80-20%,50V,Y5V,2012	1	S.A	
....4	C2020	2203-001596	C-CER,CHIP;2200nF,+80-20%,50V,Y5V,2012	1	S.A	
....4	C5060	2203-001596	C-CER,CHIP;2200nF,+80-20%,50V,Y5V,2012	1	S.A	
....4	C4025	2203-001598	C-CER,CHIP;2200nF,+80-20%,16V,Y5V,2012	1	S.N.A	
....4	C4026	2203-001598	C-CER,CHIP;2200nF,+80-20%,16V,Y5V,2012	1	S.N.A	
....4	C4029	2203-001598	C-CER,CHIP;2200nF,+80-20%,16V,Y5V,2012	1	S.N.A	
....4	C4030	2203-001598	C-CER,CHIP;2200nF,+80-20%,16V,Y5V,2012	1	S.N.A	
....4	C4031	2203-001598	C-CER,CHIP;2200nF,+80-20%,16V,Y5V,2012	1	S.N.A	
....4	C4032	2203-001598	C-CER,CHIP;2200nF,+80-20%,16V,Y5V,2012	1	S.N.A	
....4	C4034	2203-001598	C-CER,CHIP;2200nF,+80-20%,16V,Y5V,2012	1	S.N.A	
....4	C10009	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C10034	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C1100	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C1302	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C3005	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C5008	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C5012	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C5013	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C5015	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C7011	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C7013	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C4100_22	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C4201	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C903	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C904	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C910	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C1001_22	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C3501	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C3503	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C3504	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C3505	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C9003	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C9004	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	

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....4	C9023	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C9027	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C9028	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C9029	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C3242	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C3243	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9018	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9025	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9026	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9030	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9039	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9040	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9041	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9042	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9043	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9044	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9045	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C9046	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C1200	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C1201	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C2030	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C3500	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C1026	2203-005809	C-CER,CHIP;1000nF,10%,16V,X7R,TP,2012	1	S.A	
....4	C1058	2203-005809	C-CER,CHIP;1000nF,10%,16V,X7R,TP,2012	1	S.A	
....4	C1083	2203-005809	C-CER,CHIP;1000nF,10%,16V,X7R,TP,2012	1	S.A	
....4	C1065	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C1067	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C1082	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C1102	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C1103	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C1301	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C1304	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C2509	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C2510	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C2511	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C2590	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C5028	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C5030	2203-005834	C-CER,CHIP;22000nF,+80-20%,10V,Y5V,3216	1	S.A	
....4	C4009	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C4014	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C4018	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C4021	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C4312	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C4313	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C4319	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C4320	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C4321	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C4323	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C3241	2203-006141	C-CER,CHIP;1000nF,10%,16V,X5R,1608	1	S.N.A	
....4	C4035	2203-006141	C-CER,CHIP;1000nF,10%,16V,X5R,1608	1	S.N.A	
....4	C9012	2203-006141	C-CER,CHIP;1000nF,10%,16V,X5R,1608	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	C9077	2203-006141	C-CER,CHIP;1000nF,10%,16V,X5R,1608	1	S.N.A	
....4	C9316_EU	2203-006141	C-CER,CHIP;1000nF,10%,16V,X5R,1608	1	S.N.A	
....4	C9317_EU	2203-006141	C-CER,CHIP;1000nF,10%,16V,X5R,1608	1	S.N.A	
....4	C9318_EU	2203-006141	C-CER,CHIP;1000nF,10%,16V,X5R,1608	1	S.N.A	
....4	C10033	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C10035	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C10037	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C1014	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2002	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2017	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2019	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2048	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2053	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2070	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2082	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2084	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2086	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2089	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C3002	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C3007	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C3008	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4001	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4002	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4004	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4008	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4013	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4020	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4022	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4023	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4024	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4033	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4037	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4040	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4310	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4311	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4314	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4324	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4354	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C5024	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C5026	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C5029	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C5031	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C6004	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C6050	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C6111	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C6112	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C6113	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C6114	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7008	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7017	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C8020	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	

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....4	C8331	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C8365	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C8503	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C8505	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C9006	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C9007	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C9008	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C9009	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C9020	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C9022	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C1046	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1047	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1048	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1050	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1059	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1070	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1071	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1072	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1073	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C4254	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C9019	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C9024	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C9031	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C9032	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1016	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C1037	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C1076	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C1077	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C1078	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C1079	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C608	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C609	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C610	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C612	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C613	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C810	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C9005	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C906	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C9078	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C9001	2203-006399	C-CER,CHIP;1000nF,10%,6.3V,X5R,1005	1	S.A	
....4	C9002	2203-006399	C-CER,CHIP;1000nF,10%,6.3V,X5R,1005	1	S.A	
....4	C6500	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C1012	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2043	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2044	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2045	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2046	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2071	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2080	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2081	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2083	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	

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....4	C2085	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2088	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2302	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C3009	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C4036	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C5032	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C5040	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C5041	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C7010	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C7024	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C8502	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C8504	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C9021	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C9314_EU	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C9315_EU	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C9931_EU	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C9932_EU	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	CA2003	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2004	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2005	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2006	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2007	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2008	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2009	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2010	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2011	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2012	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2013	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2014	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	CA2020	2503-001051	C-NETWORK;100nFx4,20%,16V,2012	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-001334	INDUCTOR-SMD;1.5uH,10%,2012	1	S.A	
....4	T0052	2703-002722	INDUCTOR-SMD;22uH,20%,12x12mm	1	S.A	
....4	T0052	2703-002809	INDUCTOR-SMD;1.2uH,20%,7070	1	S.A	
....4	T0052	2703-002916	INDUCTOR-SMD;10uH,20%,8080	1	S.A	
....4	T0052	2703-002916	INDUCTOR-SMD;10uH,20%,8080	1	S.A	
....4	T0052	2703-002916	INDUCTOR-SMD;10uH,20%,8080	1	S.A	
....4	L9001	2704-000018	INDUCTOR-SMD-ARRAY;15uH,2000mA,2,0.124oh	1	S.N.A	
....4	L9002	2704-000018	INDUCTOR-SMD-ARRAY;15uH,2000mA,2,0.124oh	1	S.N.A	
....4	X202	2801-003326	CRYSTAL-SMD;24MHZ,30PPM,28-ABX,20PF,50OH	1	S.A	
....4	X202	2801-003773	CRYSTAL-SMD;12MHz,30ppm,28-AAN,20pF,50oh	1	S.A	
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A	
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A	
....4	T0568	3301-001163	BEAD-SMD;80ohm,2012,TP,192ohm/867MHz	1	S.N.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	

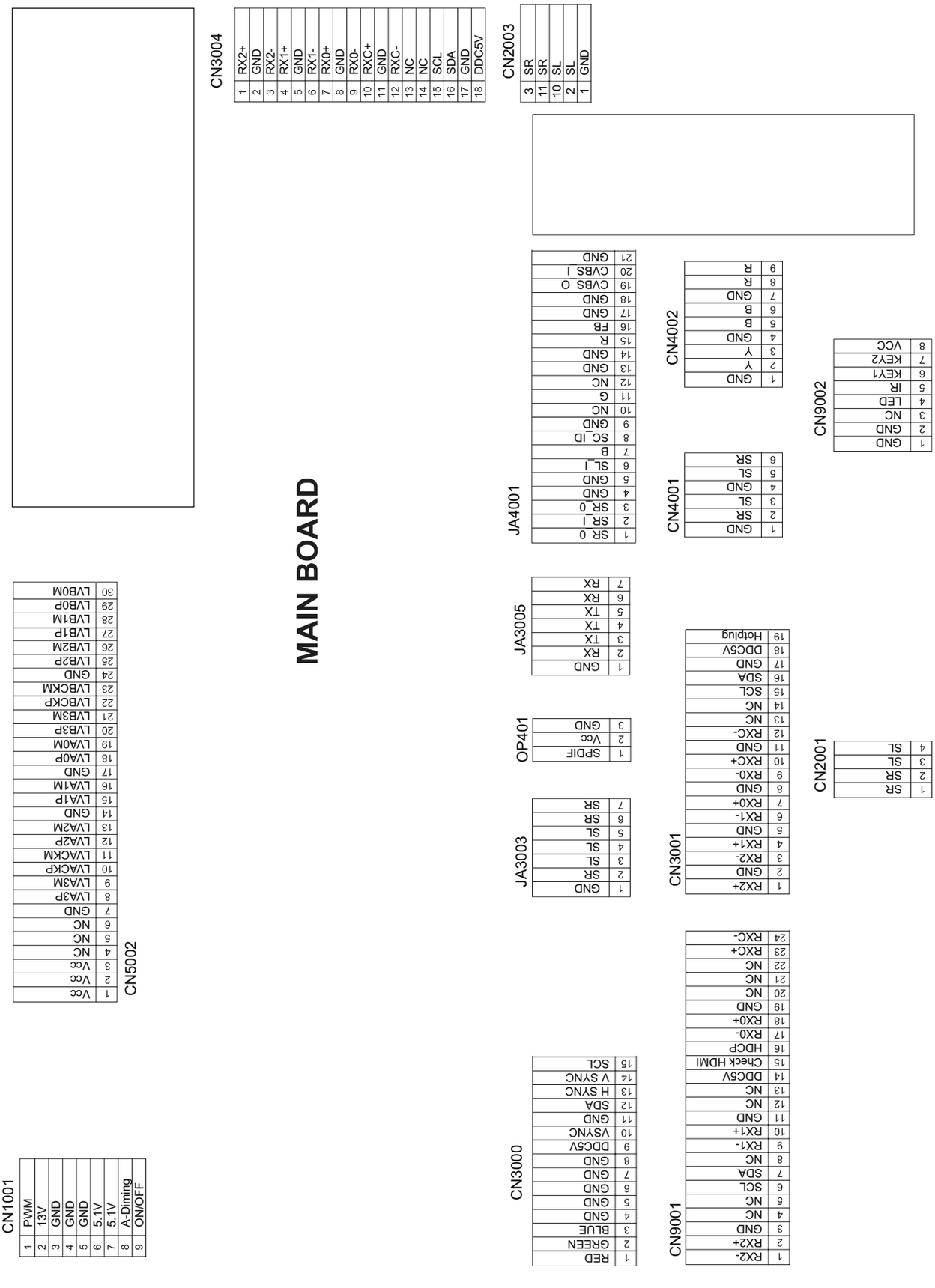
Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001407	BEAD-SMD;30ohm,1608,300mA,TP,,,0.4ohm	1	S.N.A	
....4	T0568	3301-001407	BEAD-SMD;30ohm,1608,300mA,TP,,,0.4ohm	1	S.N.A	
....4	T0568	3301-001407	BEAD-SMD;30ohm,1608,300mA,TP,,,0.4ohm	1	S.N.A	
....4	T0568	3301-001560	BEAD-SMD;80ohm,1.6X0.8X0.8mm,200mA,TP,,,	1	S.N.A	
....4	T0568	3301-001560	BEAD-SMD;80ohm,1.6X0.8X0.8mm,200mA,TP,,,	1	S.N.A	
....4	T0568	3301-001560	BEAD-SMD;80ohm,1.6X0.8X0.8mm,200mA,TP,,,	1	S.N.A	
....4	T0568	3301-001560	BEAD-SMD;80ohm,1.6X0.8X0.8mm,200mA,TP,,,	1	S.N.A	
....4	T0568	3301-001560	BEAD-SMD;80ohm,1.6X0.8X0.8mm,200mA,TP,,,	1	S.N.A	
....4	T0568	3301-001560	BEAD-SMD;80ohm,1.6X0.8X0.8mm,200mA,TP,,,	1	S.N.A	
....4	T0568	3301-001560	BEAD-SMD;80ohm,1.6X0.8X0.8mm,200mA,TP,,,	1	S.N.A	
....4	T0568	3301-001560	BEAD-SMD;80ohm,1.6X0.8X0.8mm,200mA,TP,,,	1	S.N.A	
....4	T0568	3301-001594	BEAD-SMD;90ohm,2.0*1.2*1.3mm,TP,-,-	1	S.N.A	
....4	T0568	3301-001594	BEAD-SMD;90ohm,2.0*1.2*1.3mm,TP,-,-	1	S.N.A	
....4	T0568	3301-001594	BEAD-SMD;90ohm,2.0*1.2*1.3mm,TP,-,-	1	S.N.A	
....4	T0568	3301-001594	BEAD-SMD;90ohm,2.0*1.2*1.3mm,TP,-,-	1	S.N.A	
....4	T0568	3301-001594	BEAD-SMD;90ohm,2.0*1.2*1.3mm,TP,-,-	1	S.N.A	
....4	T0568	3301-001594	BEAD-SMD;90ohm,2.0*1.2*1.3mm,TP,-,-	1	S.N.A	
....4	T0568	3301-001594	BEAD-SMD;90ohm,2.0*1.2*1.3mm,TP,-,-	1	S.N.A	
....4	T0568	3301-001594	BEAD-SMD;90ohm,2.0*1.2*1.3mm,TP,-,-	1	S.N.A	
....4	T0568	3301-001594	BEAD-SMD;90ohm,2.0*1.2*1.3mm,TP,-,-	1	S.N.A	
....4	T0568	3301-001594	BEAD-SMD;90ohm,2.0*1.2*1.3mm,TP,-,-	1	S.N.A	
....4	F1001	3601-001374	FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,Hi	1	S.N.A	
....4	M0106	3708-001150	CONNECTOR-FPC/FFC/PIC;30P,1mm,SMD-A,SN,Y	1	S.A	
....4	CN330	3711-005499	HEADER-BOARD TO CABLE;BOX,8P,1R,1.25mm,S	1	S.N.A	
....4	CN330	3711-005503	HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,SMD-	1	S.N.A	
....4	T0077	BN41-01231A	PCB MAIN;CREAM 20.1,FR-4,1.2T,220x171.5	1	S.N.A	
....4	MAIN_ MICOM	BN97-03589E	ASSY MICOM-MAIN;LS20CFVKFV/EN	1	S.N.A	
.....5	IC115	1107-001777	IC-FLASH MEMORY;MX25L6405DMI-12G,64Mbit,	1	S.A	
....4	CCMM1	BN97-03589F	ASSY MICOM-SUB;LS20CFVKFV/EN	1	S.N.A	
.....5	IC520	0903-001552	IC-MICROCONTROLLER;WT61P8-RG480WT,LQFP,4	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	IC4010	1204-003034	IC-DECODER;SEMS12-LF-S1,LFBGA,375P,21x21	1	S.A	
....4	D3244	0401-001049	DIODE-SWITCHING;LS4148,75V,150mA,SOD-80,	1	S.A	
....4	D9006	0401-001049	DIODE-SWITCHING;LS4148,75V,150mA,SOD-80,	1	S.A	
....4	R1201	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	S.A	
....4	C1104	2203-000979	C-CER,CHIP;47nF,10%,50V,X7R,TP,2012	1	S.N.A	
....4	C1305	2203-000979	C-CER,CHIP;47nF,10%,50V,X7R,TP,2012	1	S.N.A	
....4	CN6009	3701-001591	CONNECTOR-HDMI;19P,2ROW,FEMALE,SMD-S,AU	1	S.A	
...3	T0066	BP62-00017A	HEAT SINK-ES;SP-50L2HX,A6063S,T2.0,26.2,	1	S.N.A	
...3	T0066	BP62-00047A	HEAT SINK-ES;DLP,A6063S,T2.5,13,13,TAPE	1	S.N.A	
...3	T0066	BP62-00047A	HEAT SINK-ES;DLP,A6063S,T2.5,13,13,TAPE	1	S.N.A	
..2	M0230	BN96-08740A	ASSY CABLE P-FFC;LS19CME,FFC Cable,85,30	1	S.A	
..2	M0006	BN96-11624A	ASSY SHIELD P-COVER;LS20CF (MFM),SECC,T0	1	S.N.A	
...3	M0162	6502-001067	CABLE CLAMP;DAFC-1300,ID2.2,T5.2,NYLIN6/	2	S.N.A	
...3	T0073	AA63-00822A	GASKET-EMI;71TSVK-15-5-15-13,Conductive	1	S.N.A	
...3	M0131	BH63-00104A	GASKET;POSEIDON,CONDUCTIVE FABRIC,2MM,10	4	S.N.A	
...3		BN61-02429D	STUD-PEM;PNB,M2.8,D7,L20,ZPC(SIL),SUM24L	2	S.N.A	
...3	M0131	BN63-02837A	GASKET;Vivaldi,Conductive Fabric,4,13,50	1	S.N.A	
...3	T0073	BN63-04800A	GASKET-EMI;T-MFM,Fabric Type,1.5mm,20mm,	1	S.N.A	
...3	M0107	BN63-05935A	SHIELD-COVER;LS20CF,SECC,T0.8	1	S.N.A	
..2	TUNER_ GASK	AA63-01388A	GASKET-EMI,SPONGE;SP-P300M,Conductive Fa	1	S.A	
..2	T0562	6046-001014	STAND OFF;#4-40,L6,NI PLT,C3601	4	S.N.A	
0.1	M0112	BN91-04297A	ASSY SHIELD;CREAM 20(MFM)	1	S.N.A	
..2	LVDS	BN81-01805C	A/S-TAPE-FILAMENT;ELMATIT,T0.1,W12,L1200	0.06	S.N.A	
0.1	M0003	BN92-05165R	ASSY BOX;LS20CFVKFV/EN	1	S.N.A	
..2		BN69-03983A	BOX-01,SET;P2033HD,CB,A-01,SW-55,YEL,W54	1	S.N.A	
..2		BN96-02895A	ASSY MISC P-01,HANDLE PACKING;ALL MODEL,	1	S.N.A	
...3	M0103	BN66-00007A	LEVER-TOP;ALL MODEL,LDPE,WHITE,5.8g	1	S.N.A	
...3	M0102	BN66-00008A	LEVER-BOTTOM;ALL MODEL,LDPE,WHITE,4.01g	1	S.N.A	
0.1	M0113	BN92-05217A	ASSY P/MATERIAL;CREAM-MFM 20	1	S.N.A	
..2	T0524	6902-000241	BAG PE;HDPE/NITRON,T0.5/T0.012,W600,L600	1	S.N.A	
..2		AA01-00004A	FOIL;2000,2000,NTR,SEH	0.01	S.N.A	
..2		BN69-03934A	WRAP STRETCH FILM;All,HDPE,0.012,500,300	0.6	S.N.A	
..2		BN81-02321A	BAG-AIR;LIGHT FLEX PLASTIK,PE WHITE,L120	0.001	S.N.A	
..2	T0081	HA83-00057B	LP-TAPE-CELLULOSE;,HA02-030010,T0,046,W7	1.31	S.N.A	
0.1	M0045	BN92-05345G	ASSY ACCESSORY;LS20CFVKF/EN	1	S.N.A	
..2	T0074	BN59-00865A	REMOCON;DLP,CRT,TM940,EUROPE,39,92g	1	S.A	
..2		BN68-01660C	MANUAL FLYER-QSG;COMM,SyncMaster,W/W,Moj	1	S.N.A	
..2		BN68-02341B	MANUAL FLYER-PCT NOTICE;comm,Samsung,Eng	1	S.N.A	
..2	M0027	BN96-08556A	ASSY STAND P-BASE;Cream-MFM 18.5,ABS HB,	1	S.A	
...3	CIS4	BN61-01717A	HOLDER-STAND;BIZET,NI PLT,CH,+,M4,L11(5)	1	S.N.A	
...3	CCM1	BN63-02183D	COVER-SHEET;Rhcm,PE Vinyl,T0.05,680mm,20	1	S.N.A	
...3	T0132	BN73-00077A	RUBBER FOOT;MATISSE,BUMPON,Φ13.5,T2.0,6	4	S.N.A	
...3		6003-000282	SCREW-TAPTYPE;BH,+,-,B,M3,L8,ZPC(BLK),SW	4	S.N.A	
...3		BN61-02785A	BRACKET-STAND BODY;PEBBLE,SECC,0.8	1	S.N.A	
...3	T0004	BN63-02881C	COVER-STAND BASE;LS19CF,ABS,HB,BK23	1	S.N.A	
..2	M0045	BN96-09352N	ASSY ACCESSORY;LS20CFVKF/EN	1	S.A	

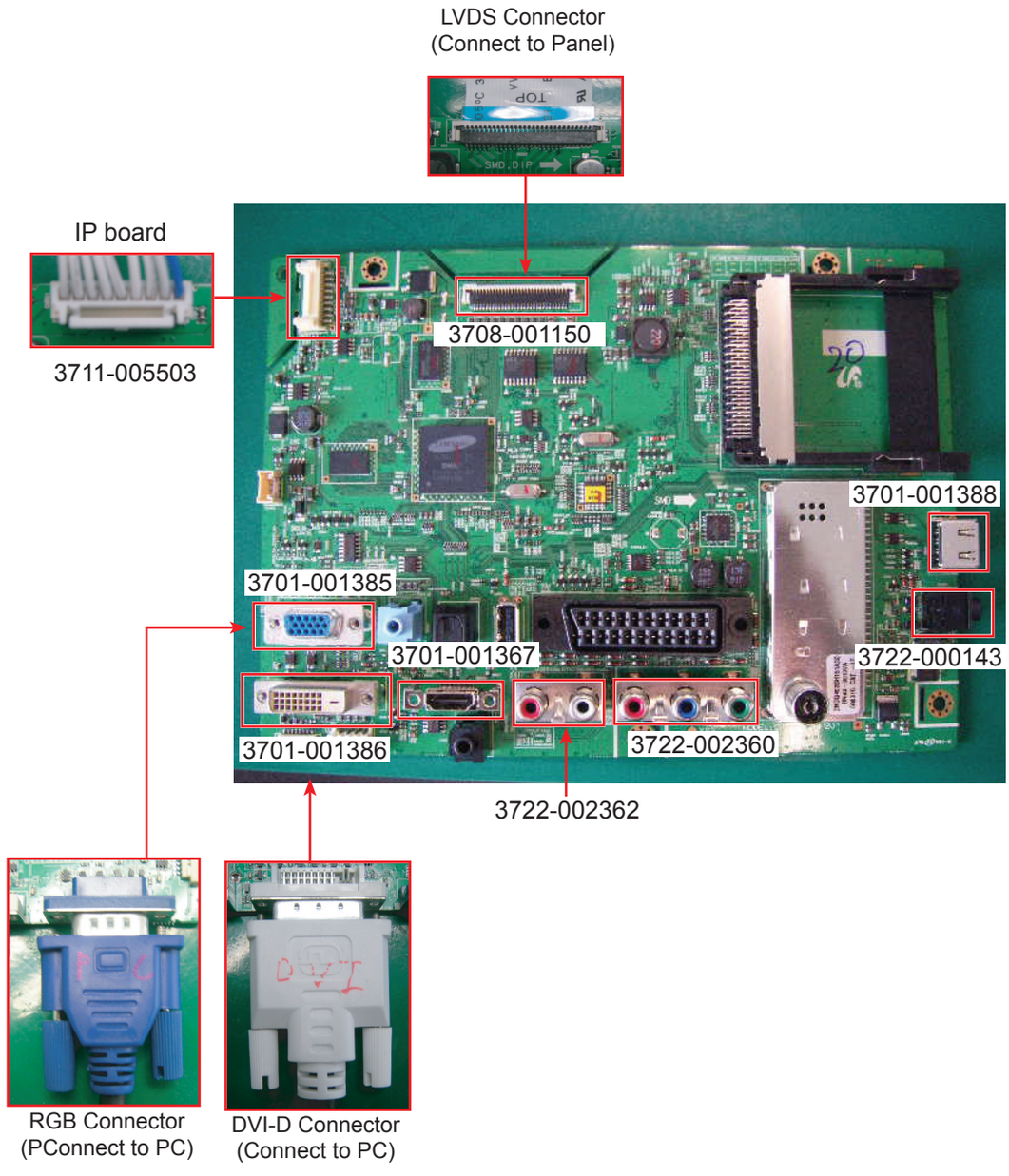
Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...3		BH68-00633B	MANUAL FLYER-03,WARRANTY CARD;comm,Samsu	1	S.N.A	
...3		BH68-70448A	CARD-01;TFT LCD,SRC,RUSSIA,S/W,120,W210*	1	S.N.A	
...3		BN59-00905B	S/W DRIVER-00,IB;2033HD,Europe,SyncMaste	1	S.N.A	
...3	M9889	BN63-01798B	CLOTH-CLEAN;cloth,180,200,sea blue,ToC	1	S.N.A	
...3		BN68-00907D	MANUAL FLYER-WEEE BATTERY;COMM,SAMSUNG,2	1	S.N.A	
...3		BN68-00907F	MANUAL FLYER-00,WEE;comm,Samsung,23Lang,	1	S.N.A	
...3		BN68-02122A	MANUAL FLYER-01,QSG;933HD, 2333HD,SyncMa	1	S.N.A	
...3	T0238	BN68-01925E	MANUAL FLYER-WARRANTY CARD;comm,Samsung,	1	S.N.A	
...3	T0128	BN39-00061C	CBF SIGNAL-STEREO;Mckinley,1,male,1.5m,B	1	S.A	
...3		BN96-08769A	ASSY HOLDER P-CABLE;CREAM,ELASTOMER HB,Y	1	S.N.A	
....4		6902-000336	BAG ZIPPER;LDPE,T0.05,W70,L80,TRP,0.500g	1	S.N.A	
....4		BN61-04324A	HOLDER-CABLE;CREAM,Urethane,YL01	1	S.N.A	
..2	T0268	3903-000042	CBF-POWER CORD;DT,EU,FP3/YES,IEC320 C13/	1	S.A	
..2	M0114	BN39-00244G	CBF SIGNAL;D-sub cable,15P/15P,20276N,15	1	S.A	
..2		BN96-08769A	ASSY HOLDER P-CABLE;CREAM,ELASTOMER HB,Y	1	S.N.A	
...3		6902-000336	BAG ZIPPER;LDPE,T0.05,W70,L80,TRP,0.500g	1	S.N.A	
...3		BN61-04324A	HOLDER-CABLE;CREAM,Urethane,YL01	1	S.N.A	
0.1	M0019	BN92-05206J	ASSY LABEL;LS20CFVKF/EN	1	S.N.A	

6. Wiring Diagram

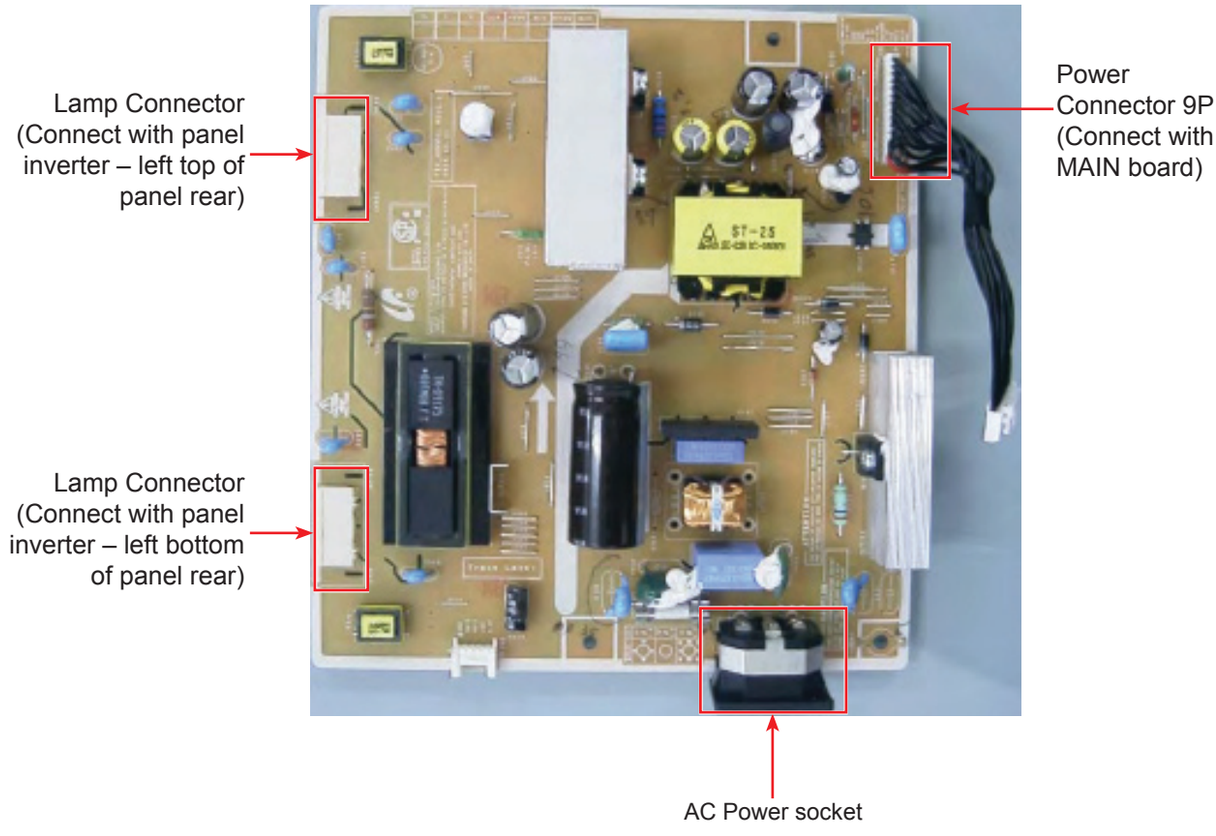
6-1. Wiring Diagram - Main Board



6-2. Wiring Diagram - MAIN Board



6-3. Wiring Diagram - IP Board



6-4. Connector Functions

Connector	Functions
CN1005	Transmits LVDS signals from the Main board to the panel * When a problem occurs: The Blank Screen and No Power errors may occur.
CN5003	VGA signal input terminal * When a problem occurs: The No RGB Output error may occur.
CN901	DVI signal input terminal * When a problem occurs: The No DVI Output error may occur.
CN6009	HDMI signal input terminal * When a problem occurs: The No DVI Output error may occur.
CN6002	HDMI signal input termianl *When a problem occurs: The No DVI Output error may occur.
CN1001	Supplies 5V and 13V from the Power board to the Main board. Receives and transmits the PWM output to the Inverter. * When a problem occurs: The Blank Screen and No Power errors may occur.
CN5002	Component input terminal. * When a problem occurs: The No MIC Input error may occur.
JA3201_EU	SCART input terminal. * When a problem occurs: The No WebCam Input error may occur.
CN5011	PC Audio input terminal. * When a problem occurs: The No Speaker Output error may occur.
CN4001	Digital Audio output terminal. * When a problem occurs: The No USB Download Operating error may occur.
CN5002	Component Audio input terminal. * When a problem occurs: The No Speaker Output error may occur.
CN3002	Headphone output terminal.

6-5. Cables

Use	LVDS 30P FFC cable
Code	BN96-08740A
Photo